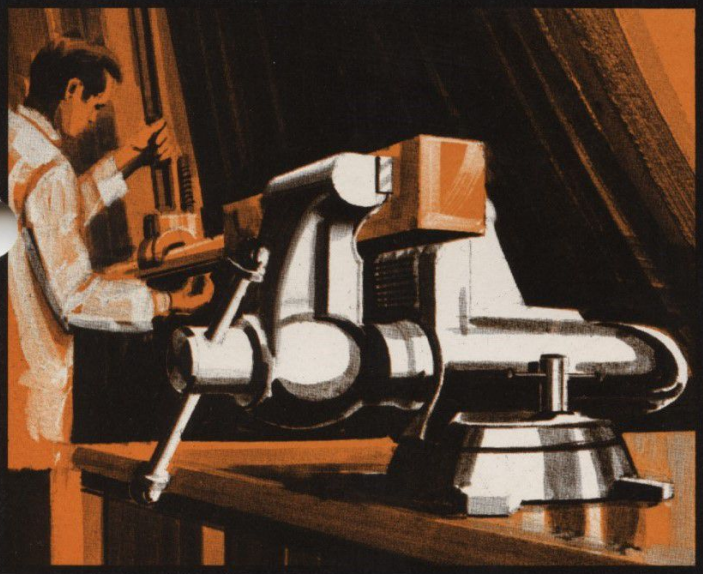
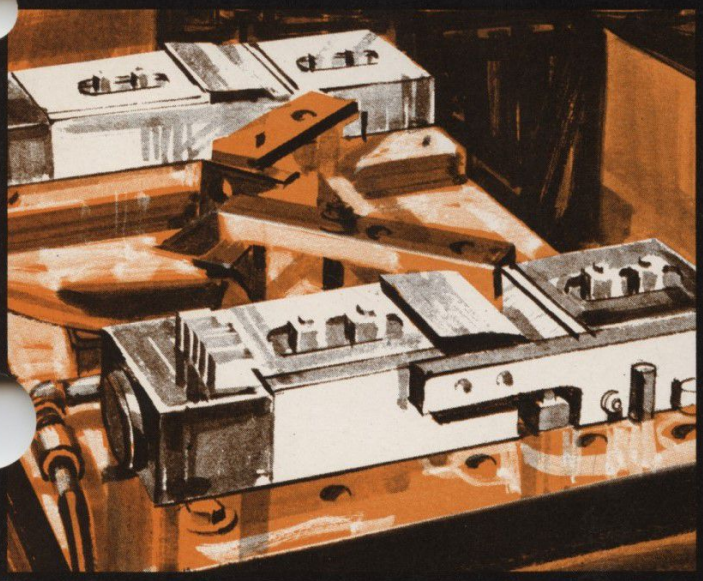
Catalog 123

WILTON®

YORK MACHINERY & SUPPLY CO.
Industrial Supplies – Machinery
20-28 N. PENN STREET • YORK, PA.

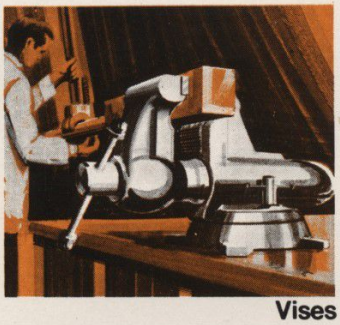
Clamping Tools



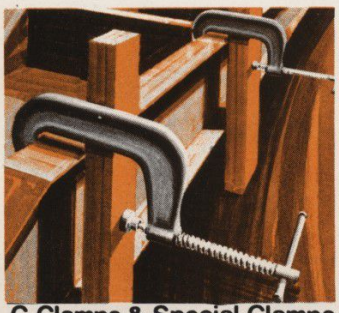


INDEX

BEGINS ON PAGE	ITEM	PAGE
V-1	Machinists' Vises	V-2
	Square Throat and PowRscrew Vises	V-5
	Combination Pipe and Bench Vises	V-6
	Cadet Auto Mechanics' Vises	V-7
	Utility Vises	V-7, V-12
	Milling Machine Vises	V-8
	Drill Press Vises	V-9
	Woodworkers' Vises,	V-10, V-11
C-1	Regular Duty, Standard Throat, "800"	C-4
	Regular Duty, Extra Deep Throat, "400"	C-5
	Regular Duty, Square Throat, "4400"	C-6
	Extra Heavy Duty, Standard Throat, "0"	C-7
	Heavy Duty, Standard Throat, "100"	C-7
	Regular Duty, Square Throat, "4400-S"	C-8
	Regular Duty, Extra Deep Throat, "400-P"	C-8
	Fabricators' Speed Clamp, Regular Duty, "1000"	C-9
	Fabricators' Speed Clamp, Heavy Duty, "2100"	C-9
	Machine Speed Clamp, "1800"	C-10
	Auto Set (Rite-Hite), Clamp, "1000as"	C-11
	Assembly Clamp, "1200"	C-12
	Area Pressure Clamp, "1300"	C-12
P-1	Basic Units	P-4, P-5
	Attachments	P-4, P-5
	PowRarm Combinations	P-6
	Attachment Selector Chart	P-7
M-1	PowRjaw Hydraulic Machine Vise	M-5
	Milomatic Milling Machine Vise	M-7
	Wiltomatic Bench Vise	M-8
H-1	Introduction to PowRlock	H-2
	Hydraulic Tooling Systems	H-3
	PowRlock Heads	H-4
	Hydraulic Boosters	H-4

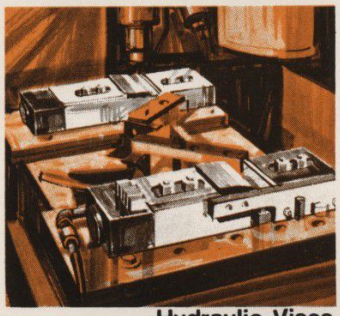


Vises

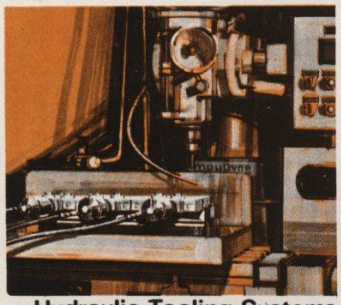


C-Clamps & Special Clamps

PowRarm Work Positioners

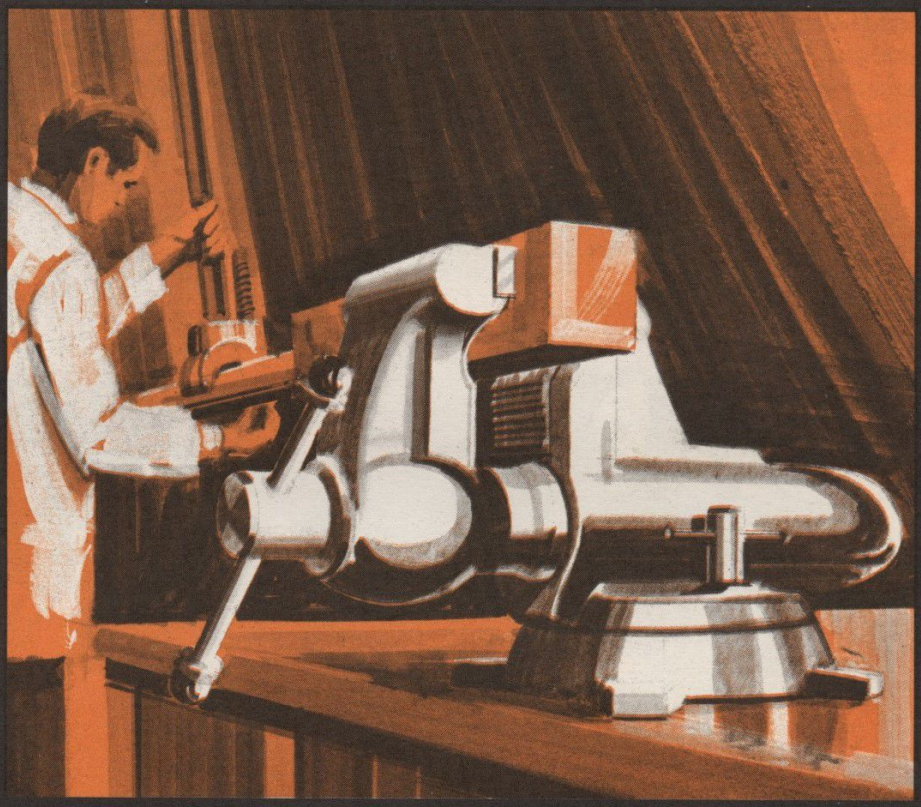


Hydraulic Vises



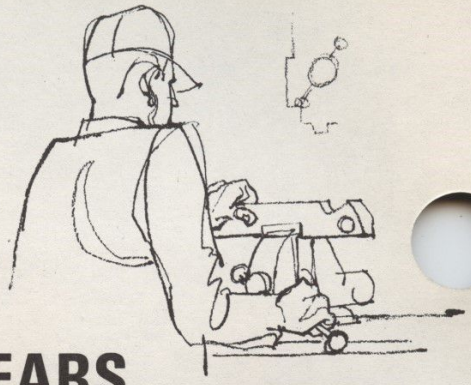
Hydraulic Tooling Systems

WILTON®
Vises



WILTON the preferred vises

WILTON®

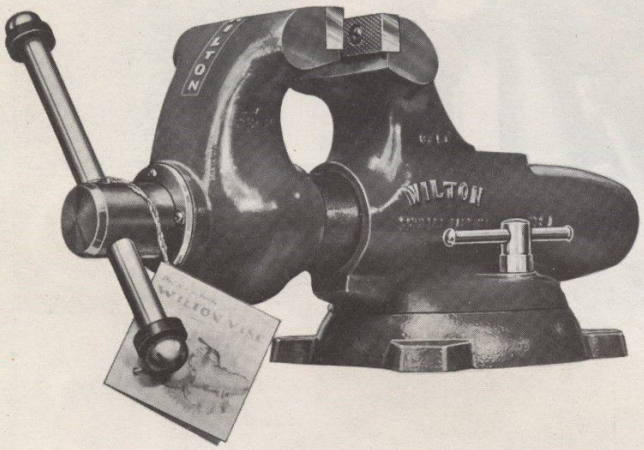


INDUSTRY FAVORITE FOR OVER 25 YEARS

There is no stronger endorsement for a vise than industry-wide acceptance. Why is Wilton the preferred vise? Wilton gives you a combination of features that no other manufacturer offers — the most important of which is the *lifetime spindle and nut.* This horizontal design—a Wilton exclusive!—means that the nut bears on the entire vise body and provides straight line pull for the spindle. Thus, you get a remarkably strong "power tunnel" with threads that cannot wear out.

Every Wilton Machinists' Vise carries the following guarantee: All the visible parts of a Wilton Machinists' Vise are unconditionally guaranteed for five years. The internal parts — the spindle and nut — are guaranteed for a lifetime.

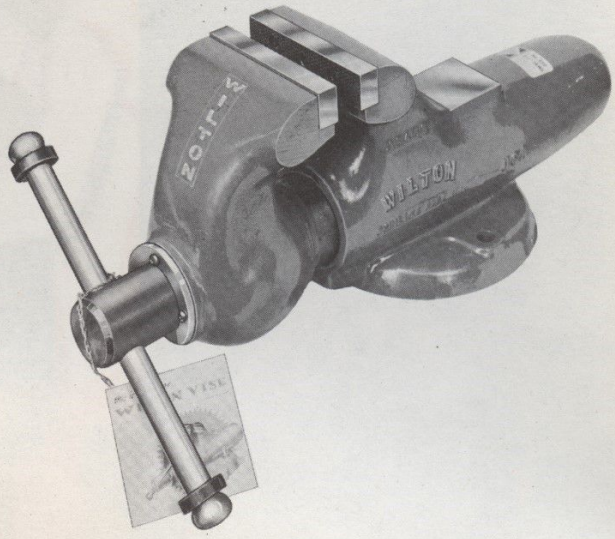
GREATER STRENGTH — Malleable iron castings on main stressed parts have nearly twice the strength of gray iron castings used in other vises. DEEPER THROATS — Greater throat depths offer up to 35% more work-holding capacity. CHOICE OF 4 JAW FACES — New, large jaw faces are easily removable, reversible or replaceable.



SWIVEL BASE MODELS

Years of trouble-free service are backed up by Wilton's dual 5-year lifetime guarantee. Improved design includes smooth 360° rotation with positive lock positioning, greater throat depth, larger jaw faces and increased work-load opening. Conforms with Fed. Spec. GGG-V-410a, Type VI, Class 2.

Catalog Number	Jaw Width	Maximum Opening	Depth of Throat	Shipping Wt., Lbs.
250S	2½"	3"	2"	13 lbs.
300S	3"	4¾"	2⅝"	29 lbs.
350S	3½"	5¼"	2¾"	41 lbs.
400S	4"	6½"	3½"	58 lbs.
450S	4½"	7½"	4⅛"	69 lbs.
500S	5"	8"	4¼"	85 lbs.
600S	6"	10"	5½"	164 lbs.
800S	8"	12"	5½"	248 lbs.

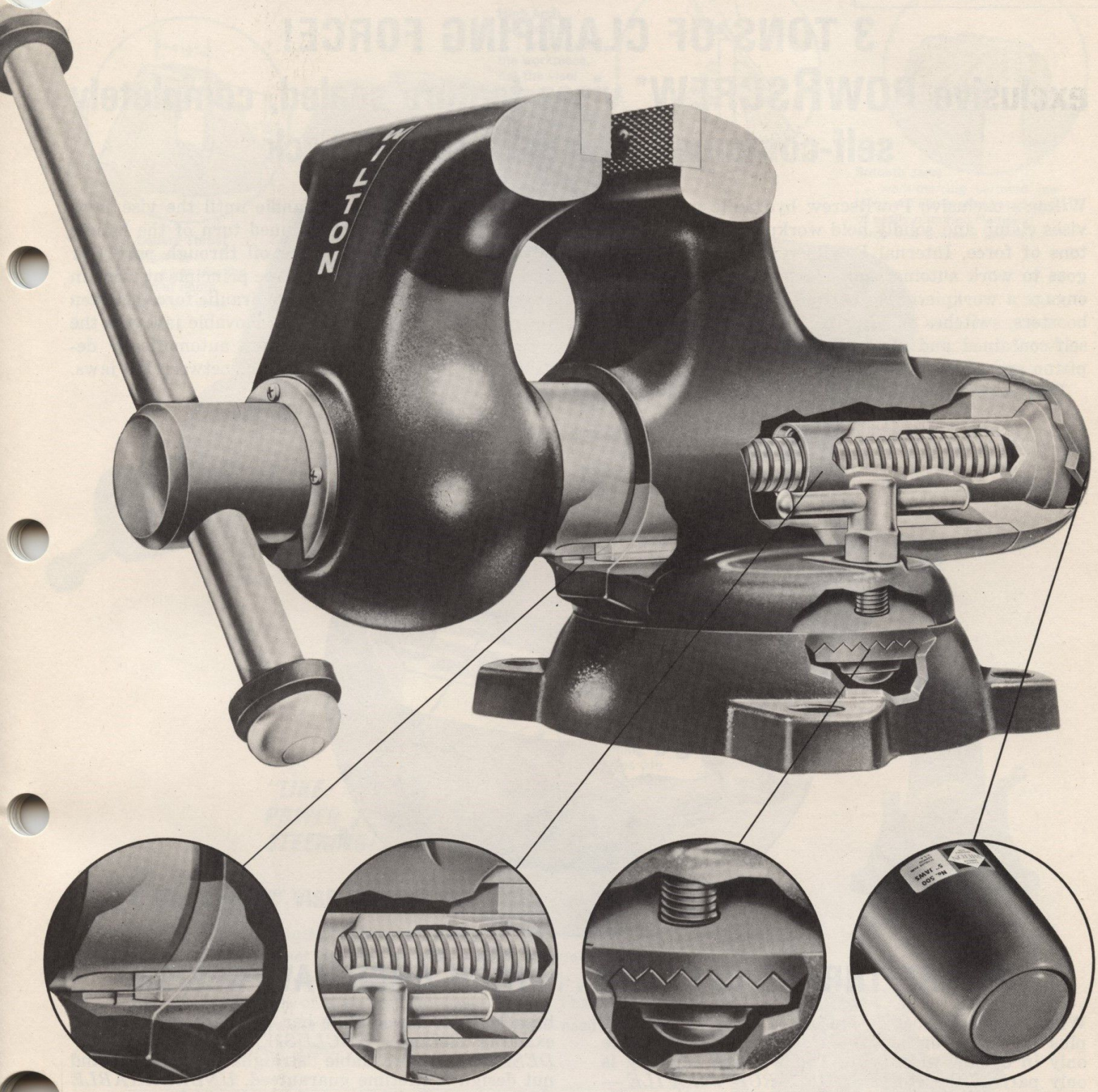


STATIONARY BASE MODELS

Identical to the vise described above in superior design and construction, it can be readily converted to swivel base type by adding Wilton's swivel assembly. Conforms with Fed. Spec. GGG-V-410a, Type VI, Class 1.

Catalog Number	Jaw Width	Maximum Opening	Depth of Throat	Shipping Wt., Lbs.
250N	2½"	3"	2"	11 lbs.
300N	3"	4¾"	2⅝"	25 lbs.
350N	3½"	5¼"	2¾"	35 lbs.
400N	4"	6½"	3½"	49 lbs.
450N	4½"	7½"	4⅛"	60 lbs.
500N	5"	8"	4¼"	75 lbs.
600N	6"	10"	5½"	153 lbs.
800N	8"	12"	5½"	227 lbs.

MACHINISTS' VISES



PRECISION SLIDE BAR — Steel key guide in broached keyway of cylindrical housing insures precision fit of .002" . . . no side play.

LIFETIME SPINDLE & NUT — Nut bears on entire vise body, provides straight line pull for spindle. Threads can't wear out.

NEW SWIVEL LOCKING — New serrated locking base with double lockdown assures slip-proof grip throughout 360° rotation.

SEALED CONSTRUCTION— Total enclosure of all moving parts locks in lubrication, locks out abrasive dust, chips and moisture for a lifetime.

WILTON the preferred vises

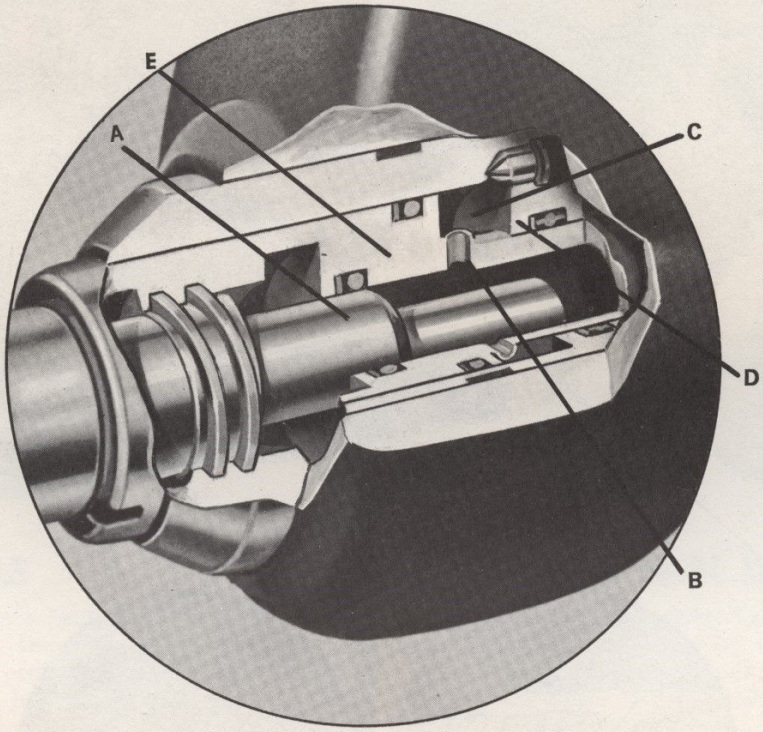
POWRSCREW®

3 TONS OF CLAMPING FORCE!

exclusive POWRSCREW® vises feature sealed, completely self-contained hydraulic power pack

Wilton's exclusive PowRscrew hydraulic machinists' vises clamp and solidly hold workpieces with up to 3 tons of force. Internal PowRscrew tightening assist goes to work automatically, each time the vise jaws engage a workpiece. No buttons, levers, cams, hoses, boosters, switches or adjustments — ever. Completely self-contained and service-free. There's a hydraulic piston and oil reservoir built-in.

PowRscrew hydraulic assist is engaged automatically by turning the vise handle until the vise jaws contact the workpiece. Continued turn of the handle advances piston (A), forcing oil through port (B) and into chamber (C). Hydraulic principle at work in chamber (C) exerts 6,000 lbs. hydraulic force between the cylinder housing (D) in the movable jaw, and the screw assembly (E). This action automatically develops 3 tons of work-holding force between the jaws.

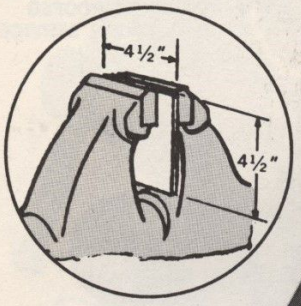


SQUARE THROAT CAPACITY . . . HIGH ARCH JAW DESIGN

Wilton square throat design offers a 4½" jaw width plus 4½" working depth — a depth usually available only in 6" jaw-width vise. Top working capacity is only part of the story: *HIGH ARCH PROFILE* — raised and chamfered jaw faces offer a slim profile for maximum working convenience from all angles . . . lets you file the workpiece, not the vise! *EXTRA LARGE ANVIL* — giant 13 square inches for top working ability. *LIFETIME LUBRICATION* — sealed construction locks out dirt and chips, locks in lubrication. *PRECISION CONSTRUCTION* — broached and keyed slide bar precision machined to exacting tolerances. *EXCLUSIVE SPINDLE & NUT DESIGN* — unbreakable "straight-line" spindle and nut design is lifetime guaranteed. *UNBREAKABLE BODY* — malleable iron throughout, far stronger than grey iron. *IMPROVED SWIVEL* — serrated, double locked swivel base for positive positioning.

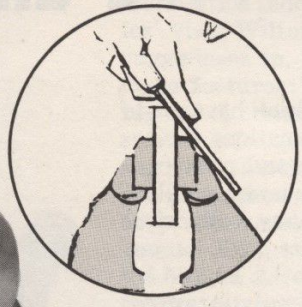
Wilton Machinists' Vises are available in 4 models — swivel or stationary base, manual or PowRscrew tightening.

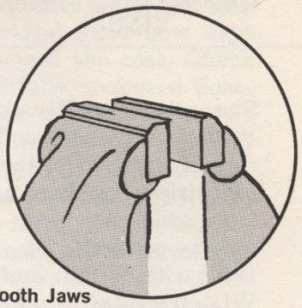
MACHINISTS' VISES



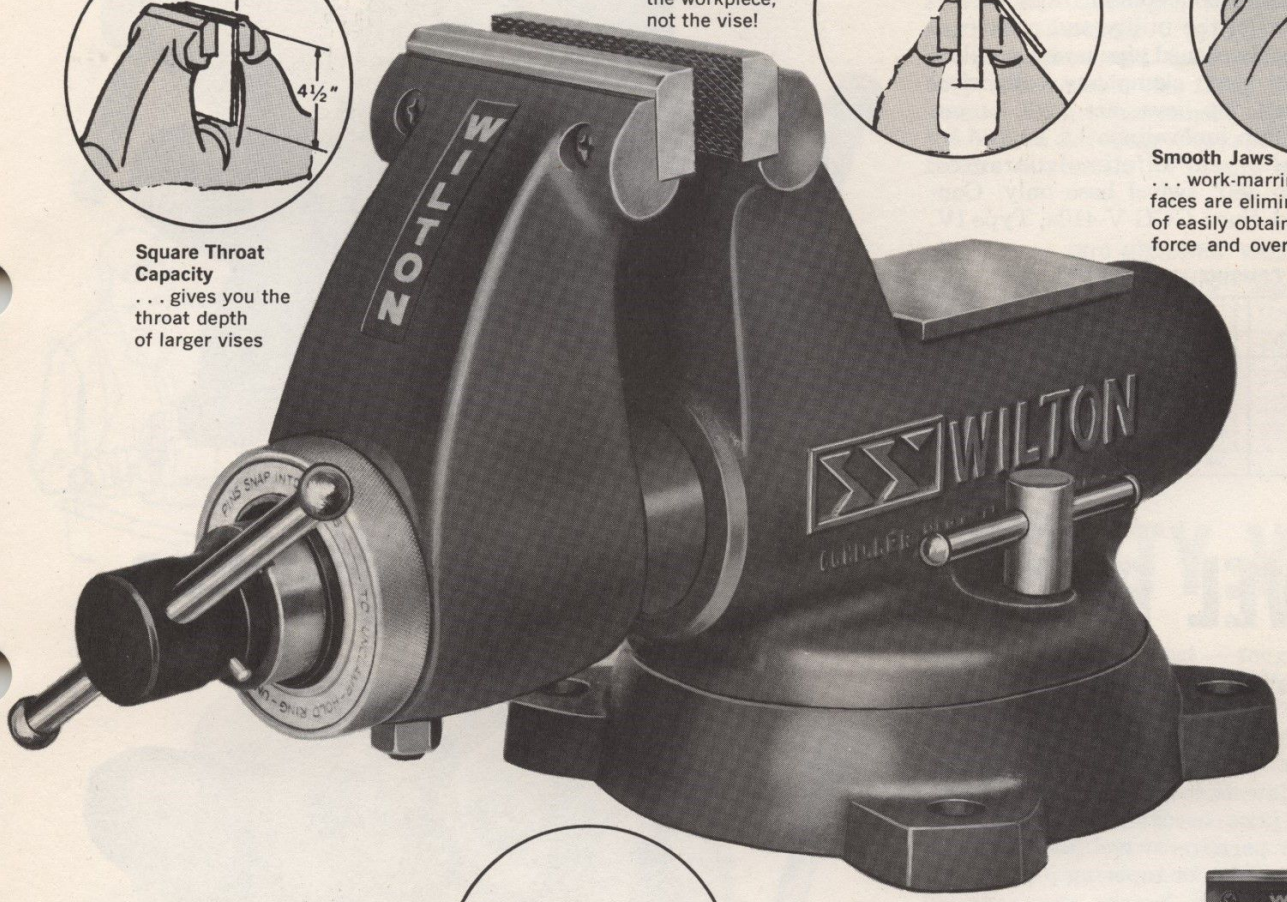
Square Throat Capacity
. . . gives you the throat depth of larger vises

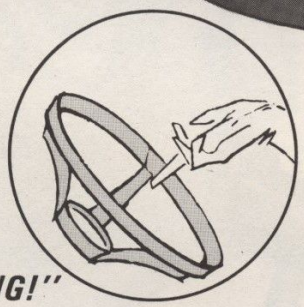
High Arch Jaw Profile
. . . lets you file the workpiece, not the vise!





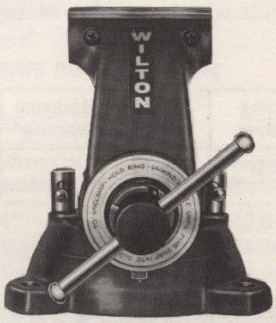
Smooth Jaws
. . . work-marring serrated jaw faces are eliminated because of easily obtained clamping force and oversize jaw faces.





PowRscrew Tightening
. . . helps you clamp workpiece as fast and easy as power steering

"LIKE POWER STEERING!"



4510S POWRSCREW

4 MACHINISTS' VISE MODELS

New Wilton Machinists' Vises are available with swivel and stationary bases in two models — with Manual or Hydraulic PowRscrew tightening. Both vise models provide the advantages of high arch jaws and Square Throat capacity. Both are perfect for use everywhere you need a quality Machinists' Vise.

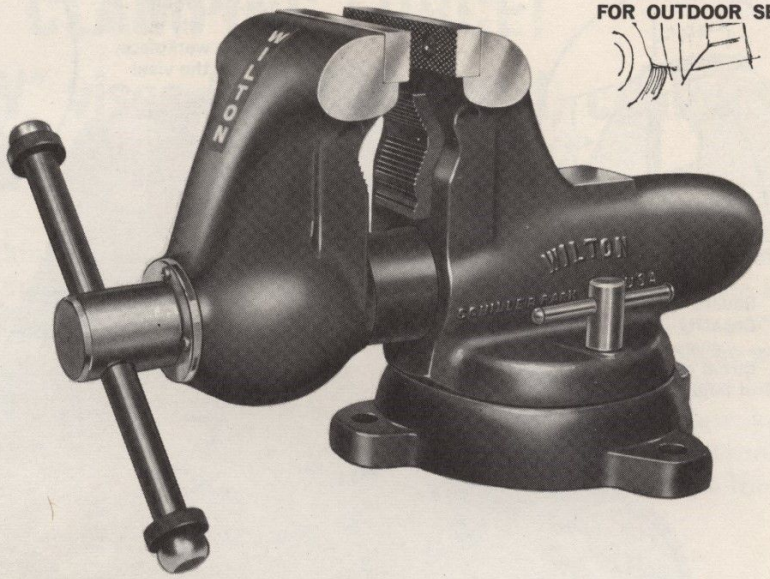
Catalog Number	Type	Base	Jaw Width	Max. Opening	Depth of Throat	Shipping Wt., Lbs.	Type Jaw
4500S	Manual	Swivel	4½"	6"	4½"	67 lbs.	Serrated
4500N	Manual	Stationary	4½"	6"	4½"	58 lbs.	Serrated
4510S	PowRscrew	Swivel	4½"	6"	4½"	68 lbs.	Smooth
4510N	PowRscrew	Stationary	4½"	6"	4½"	58 lbs.	Smooth

4500S MANUAL

WILTON the preferred vises

COMBINATION PIPE and BENCH VISES

Strength, durability and precision have made Wilton "Weatherproof" combinations, the accepted standard of the utility and petroleum industries. Case hardened pipe jaws are milled from solid tool steel, clamp any cylindrical object—serrated top jaws are new, larger. Built with Wilton innovations . . . backed by Wilton's dual 5-year Lifetime guarantee. Available with 360° swivel base only. Conforms with Fed. Spec. GGG-V-410a, Type IV.

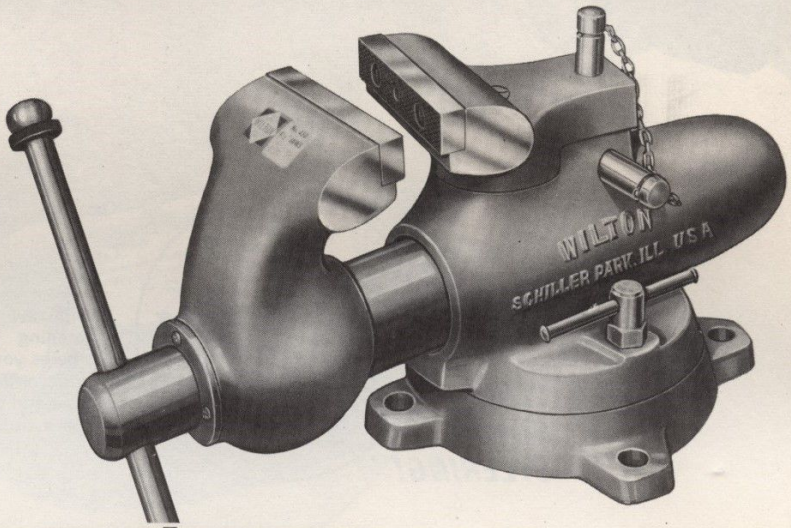


COMBINATION VISES

Catalog Number	Jaw Width	Pipe Capacity	Depth of Throat	Shipping Wt., Lbs.
C-0	3½"	⅛-2½"	4¼"	48 lbs.
C-1	4½"	⅛-3½"	4¾"	70 lbs.
C-2	5"	⅛-4½"	5¾"	113 lbs.
C-3	6"	¼-6"	7⅜"	192 lbs

SWIVEL BASE and SWIVEL JAW VISES

Built to rugged and accurate design. Protected by Wilton's Unconditional 5 Year Guarantee. Conforms with Fed. Spec. GGG-V-410a, Type VI, Class 3. With pin in place, swivel back jaw is locked rigidly in place, holding the jaws accurately parallel. Removal of pin permits swivel jaw to align itself with irregular or tapering pieces.

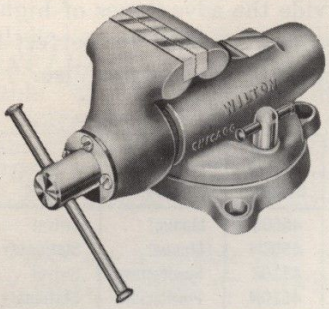


SWIVEL BASE AND SWIVEL JAW VISES

Catalog Number	Jaw Width	Maximum Opening	Depth of Throat	Shipping Wt., Lbs.
450SJ	4½"	7½"	4⅛"	72 lbs.

PRECISION JEWELERS' VISES

Built to the utmost precision and accuracy. Design is similar to unit shown above, with great locking strength despite small size. Conforms with Fed. Spec. GGG-V-410a, Type V. Smooth steel jaws are standard; alternate types available to fit your requirements.



JEWELERS VISES

Catalog Number	Description	Jaw Width	Maximum Opening	Depth of Throat	Shipping Wt., Lbs.
20S	Swivel base	2"	2¼"	1½"	4½ lbs.
20N	Stationary base	2"	2¼"	1½"	4 lbs.

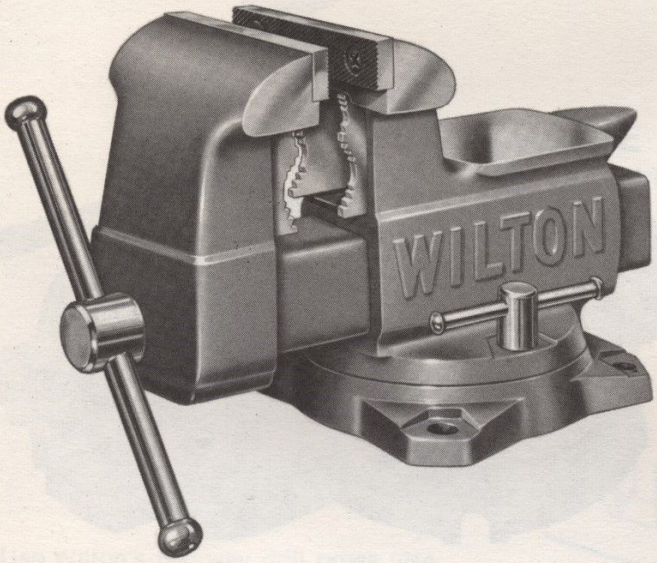
CADET® AUTO MECHANICS' VISES

Here's the industrial-quality auto mechanics' vise. Wilton industrial know-how kept ruggedness in, yet lowered the cost. Check these features: horizontally anchored floating nut eliminates thread wear . . . lengthens service life . . . rugged malleable iron and semisteel castings . . . spindle and nut are grease packed and fully enclosed by vise body. Replaceable vise faces. Swivel base is standard. Plus many more advantages, and the Wilton Lifetime Guarantee against defective materials or poor workmanship.

AUTO MECHANICS' VISES

Catalog Number	Jaw Width	Maximum Opening	Depth of Throat	Shipping Wt., Lbs.
135	3½"	4"	2¼"	22 lbs.
140	4"	5¼"	2¾"	39 lbs.
145	4½"	5¼"	2¾"	42 lbs.
150	5"	6½"	3⅛"	55 lbs.

WILTON 640 LINE UTILITY VISES



Here is the roughest — toughest Utility Vise Line ever built by Wilton . . . or any other manufacturer! Massive, good looking and well made. Check these features: • Hardened steel replaceable pipe jaws • Large reinforced forming horn • Swivel base • Polished anvil — biggest ever • Serrated steel replaceable top jaws • Unbreakable 3/16" formed steel slide. Painted in brilliant grey enamel. Singly packed in reshippable cartons.

"640" LINE UTILITY VISES

Catalog Number	Jaw Width	Maximum Opening	Pipe Capacity	Shipping Wt., Lbs.
643½	3½"	4"	⅛-2"	19 lbs.
644	4¼"	4½"	⅛-2½"	26 lbs.
645	5"	5½"	⅛-2½"	34 lbs.

JAW CAPS

. . . that fit all makes of vises

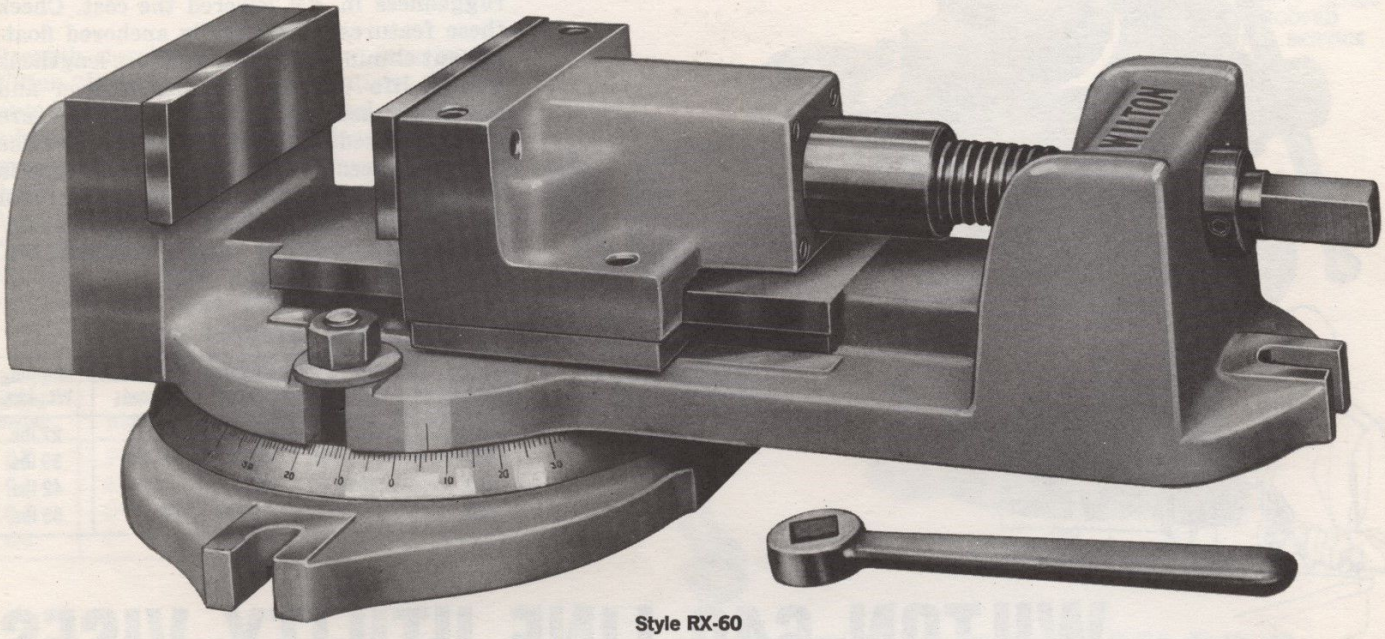
Copper jaw caps have polished faces and pliable copper extensions for pressure fit on any make of vise. A portable workpiece, yet one that insures positive clamping.

COPPER

	Width of Vise Jaws							
404—Copper Jaw Caps	2"	2½"	3"	3½"	4"	4½"	5"	6"

WILTON the preferred vises

WILTON MILLING MACHINE VISES

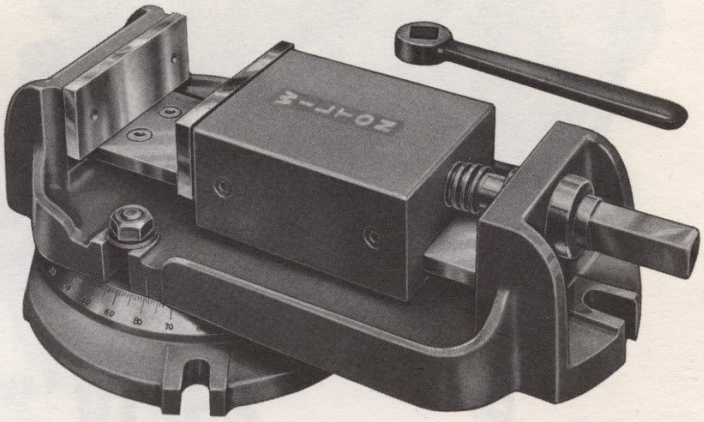


Style RX-60

Both styles feature a solid, uninterrupted bed, eliminating the guide-slots which accumulate dirt and chips. Forged steel wrench and 11/16″ tongues included. Swivel base graduations are engraved. Base of vises contain milled tongue slots for crosswise and lengthwise mounting. Each vise registered and Guaranteed Unconditionally for 5 Years!

Style RX-45 has unique patented feature of a replaceable, steel, surface ground bed plate. This reduces its price to an unprecedented level for a vise of this quality, while giving the triple benefit of high accuracy, durability, plus replaceability of the most vulnerable portion of any machine vise. Base casting provides generous coolant troughs.

All models have unusually large jaw openings and throat depths, with low overall height. Jaw faces are steel, surface ground and replaceable, Templates showing jaw details available on request.



Style RX-45

MILLING MACHINE VISES

Catalog Number	Description	Width of Jaws	Max. Jaw Opening	Depth of Jaws	Overall Height	Shipping Wt., Lbs.
RX-45	Graduated Swivel Base	4½″	4¼″	1 13/16″	4¾″	61 lbs.
RXN-45	Stationary Flanged Base	4½″	4¼″	1 13/16″	3½″	50 lbs.
RX-60	Graduated Swivel Base	6″	5¼″	2 15/16″	6½″	133 lbs.
RXN-60	Stationary Flanged Base	6″	5¼″	2 15/16″	4⅞″	99 lbs.

WILTON DRILL PRESS VISES

Both sides of this new Wilton vise have been precision machined at right angles to the bottom. This means that by laying the vise on its side, you can turn a workpiece 90°—and drill again—without removing it from the vise.

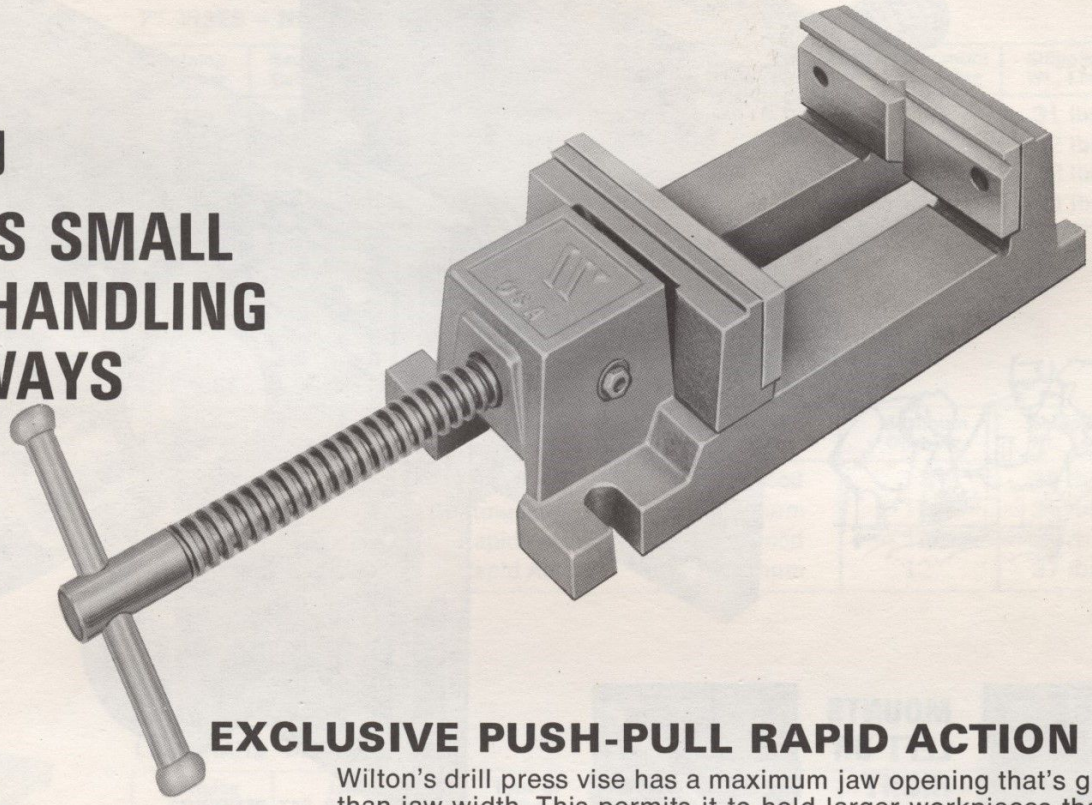
Second, this vise is available with Wilton's rapid acting tightening nut. Recently redesigned for longer life, it automatically disengages with counterclockwise handle rotation. The jaw is then free to slide in either direction for fast loading and unloading. Clockwise handle rotation quickly engages the nut for powerful tightening, as with a conventional vise's nut.

Heavier design for greater accuracy

Every component of this vise has been "beefed" up to give you maximum durability and accuracy. The moveable jaw's gib is made of steel and rides in a machined, cast iron way. Slide bar handle is heavier. The result of this new design is a drill press vise that's some thirty per cent heavier than conventional models.

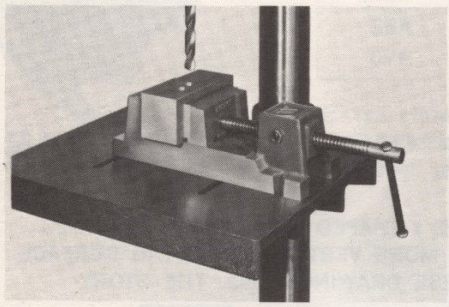
large jaw opening

SPEEDS SMALL PART HANDLING TWO WAYS

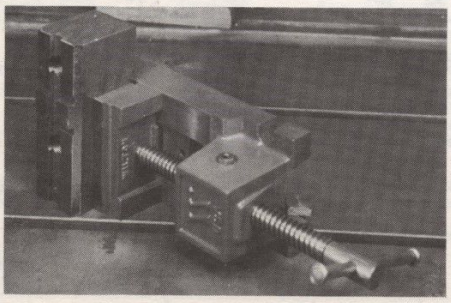


EXCLUSIVE PUSH-PULL RAPID ACTION

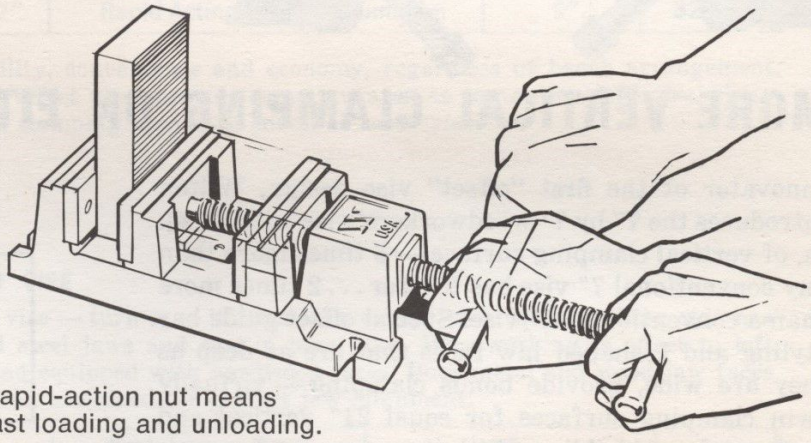
Wilton's drill press vise has a maximum jaw opening that's greater than jaw width. This permits it to hold larger workpieces than the run-of-the-mill drill press vise.



Use Wilton's two-way drill press vise in the conventional way—



—or turn it on its side. Carefully machined sides guarantee squareness.



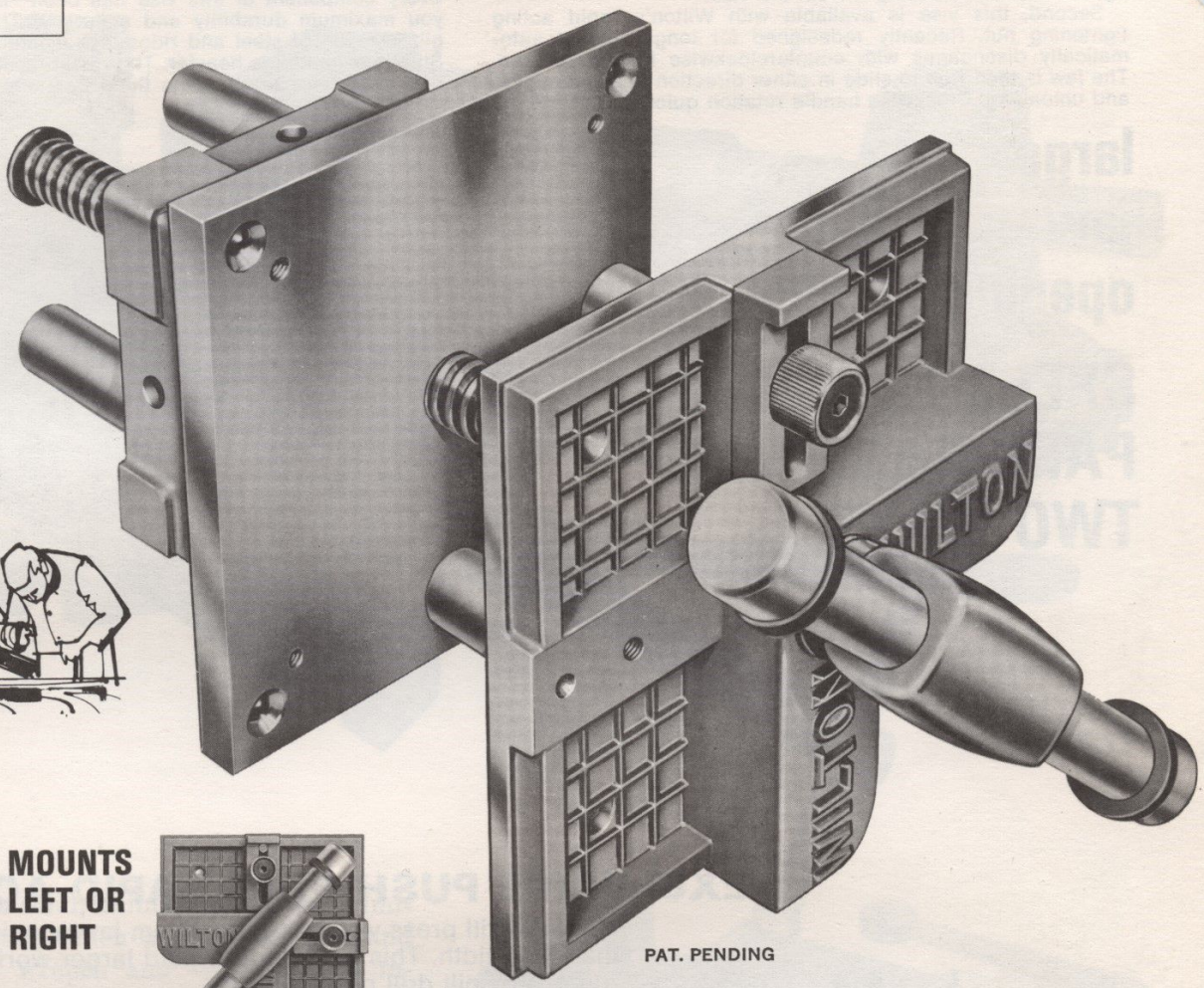
Rapid-action nut means fast loading and unloading.

Catalog No.	Jaw width	Max. jaw opening	Depth of jaws	Type of nut	Shipping weight
1035	3½"	4¼"	1¾"	conventional	9 lbs.
1135	3½"	4¼"	1¾"	rapid action	9 lbs.
1045	4½"	4¾"	1⅞"	conventional	16 lbs.
1145	4½"	4¾"	1⅞"	rapid action	16 lbs.
1060	6"	6¾"	2⅛"	conventional	28 lbs.
1160	6"	6¾"	2⅛"	rapid action	28 lbs.

WILTON the preferred vises

WILTON PROFESSIONAL

"7 by 7"® WOODWORKERS' VISE



PAT. PENDING

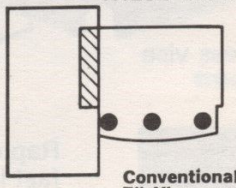
MOUNTS LEFT OR RIGHT

MORE VERTICAL CLAMPING ON EITHER SIDE OF THE BENCH

Innovator of the first "offset" vise design, Wilton introduces the 7″ by 7″ woodworkers' vise with 21 sq. in. of vertical clamping surface — 5 times more than any conventional 7″ vise has to offer . . . 2 times more than a conventional 10″ vise. Special offset guide bar styling and L-shaped jaw faces that are as deep as they are wide, provide bonus clamping — virtually twin clamping surfaces for equal 21″ vertical and horizontal workholding. With its unique dual mounting bracket, the 7″ by 7″ can be mounted on either end of the bench! Exclusive guide bar and spindle placement add extra rigidity, particularly at extended jaw openings. New all steel dog is adjustable 1-inch and locking. This is a new vise design built with familiar Wilton quality: all moving parts life-lubricated, handle assembly is wearproof and boyproof, and it's guaranteed unconditionally for 3 years.

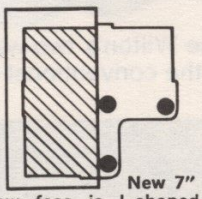
UNIQUE L-SHAPED JAW DESIGN PROVIDES 5 TIMES MORE VERTICAL CLAMPING SURFACE

THESE DRAWINGS TELL THE STORY



Conventional 7″ Vise

Jaw face is centered over guide bars and spindle. Vertical clamping surface limited to 1-inch by the guide bar. Jaw face is 4 inches deep — 4 sq. in.!



New 7″ by 7″ Vise

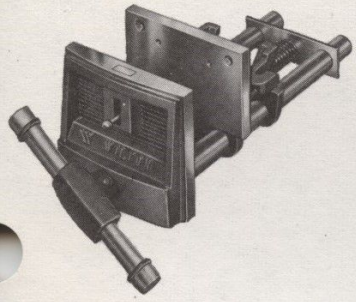
Jaw face is L-shaped, 7 inches wide and 7 inches deep. Offset guide bars free 3 inches of jaw face for vertical clamping surface — 21 sq. in.!

NOTE: Vises are shipped with dogs in position for left-hand mounting. Wh vises for right-hand mounting are desired, specify "Right" when orderin

7″ by 7″ WOODWORKERS' VISES

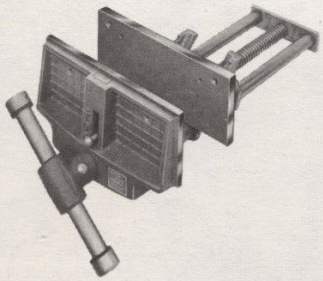
Catalog Number	Jaw Size	Jaw Opening	Type of Nut	Handle	Shipping Wt., Lbs.
76A	7″ x 7″	9″	Continuous	Aluminum	32 lbs.
77A	7″ x 7″	9″	Rapid Acting	Aluminum	32 lbs.

QUALITY WOODWORKERS' VISES



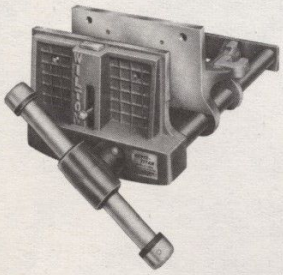
7″ VISES – NEW DESIGN

Catalog Number	Replaces Cat. No.	Jaw Size	Type of Nut	Type of Handle	Maximum Opening	Shipping Wt., Lbs.
51W	61W	4″ x 7″	Continuous Screw	Hardwood	9″	31 lbs.
51A	61A	4″ x 7″	Continuous Screw	Aluminum	9″	32 lbs.
53W	63W	4″ x 7″	Rapid Acting	Hardwood	9″	32 lbs.
53A	63A	4″ x 7″	Rapid Acting	Aluminum	9″	33 lbs.



10″ VISES—CONVENTIONAL DESIGN

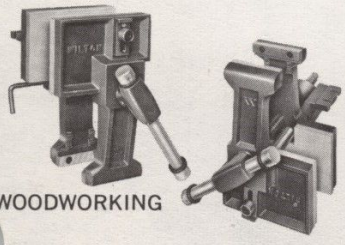
Catalog Number	Jaw Size	Type of Nut	Type of Handle	Maximum Opening	Shipping Wt., Lbs.
62W	4″ x 10″	Continuous Screw	Hardwood	12″	35 lbs.
62A	4″ x 10″	Continuous Screw	Aluminum	12″	36 lbs.
64W	4″ x 10″	Rapid Acting	Hardwood	12″	36 lbs.
64A	4″ x 10″	Rapid Acting	Aluminum	12″	37 lbs.



LEFT HAND OFFSET VISES

Catalog Number	Jaw Size	Type of Nut	Type of Handle	Maximum Opening	Shipping Wt., Lbs.
66A	4″ x 7″	Continuous Screw	Aluminum	9″	31 lbs.
67A	4″ x 7″	Rapid Acting	Aluminum	9″	32 lbs.

Extra clamping ability, convenience and economy, regardless of bench arrangement. Wilton left or right offset vises provide same jaw area as conventional 7″ vise, plus a full 2½″ of vertical clamping area — as much as a 10″ vise.



WOODWORKING

METALWORKING

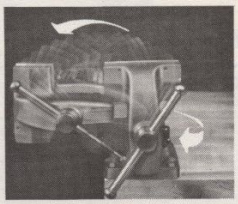
UNIVERSAL TURRET VISE

It's a woodworking vise — turn it — it's a metalworking vise. Metalworking side has replaceable serrated steel jaws and cast-in pipe jaws. Woodworking is offset to left for vertical work, and equipped with hardwood faces. Both metal and wood jaw faces and sides are precision machined for perfect jaw alignment.

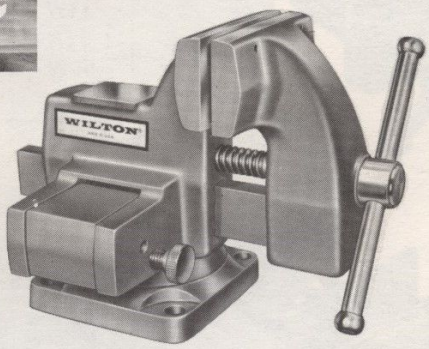
Catalog Number	Type of Handle	Wood-working Jaw Faces	Metal-working Jaw Faces	Pipe Capacity	Maximum Operating	Shipping Wt., Lbs.
91A	Aluminum	5″ x 7″	1″ x 4″	¼″ to 4½″	5½″	36 lbs.

WILTON the preferred vises

WILTON QUALITY VISES



Wilton FLIP-GRIP Vise
U.S. Patent Pending



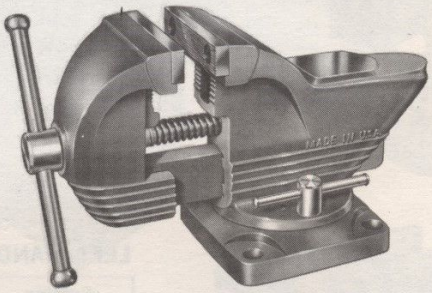
THE ALL NEW WILTON FLIP-GRIP VISE

The most versatile vise on the market — the Flip-Grip clamps wood, metal or pipe in the vertical or horizontal position. Insertable pipe jaws and metal working jaws standard. Swivel base, ideal for home workshop enthusiasts.

Catalog Number	Jaw Width	Maximum Opening	Pipe Capacity	Shipping Weight
594	4″	4″	¼″-2½″	22 lbs.

WILTON SHOP KING® VISES

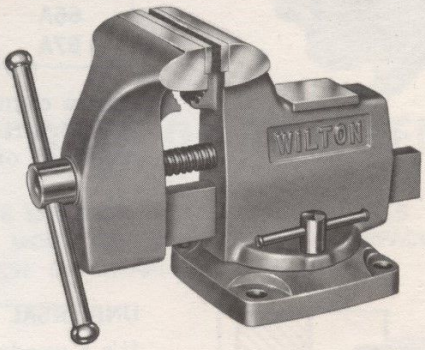
Wilton's SHOP KING Utility Vises combine extra utility with streamlined modern design. Equipped with replaceable pipe jaws, hardened serrated top jaws, and swivel base.



Catalog Number	Jaw Width	Maximum Opening	Pipe Capacity	Shipping Wt., Lbs.
633½	3½″	4″	⅛-1½″	17 lbs.
635	5″	5″	⅛-2″	30 lbs.

WILTON HOME VISES

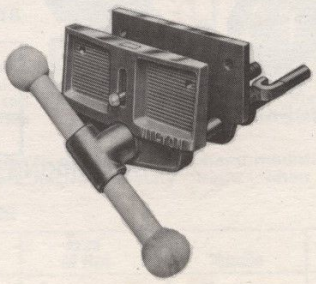
An integrated line of vises at a minimum price. Swivel bases; built-in pipe jaws; replaceable serrated steel top jaws, massive steel slide bar, anvil, red enamel finish. 535 and 540 have conventional jaw movement. 550 has stationary front jaw with back jaw travel on I-beam vise slide.



Catalog Number	Jaw Width	Maximum Opening	Type Jaw Faces	Shipping Wt., Lbs.
535	3½″	3″	Steel, serrated	12 lbs.
540	4″	3¾″	Steel, serrated	15 lbs.
550	5″	4¼″	Steel, serrated	18 lbs.

ELEMENTARY SHOP WOODWORKERS' VISES

A light weight vise for elementary school shops. Includes dog in front jaw, and hickory handle. Jaw surfaces come smooth cast. Mounts easily against bench tops up to 2½″ thick.



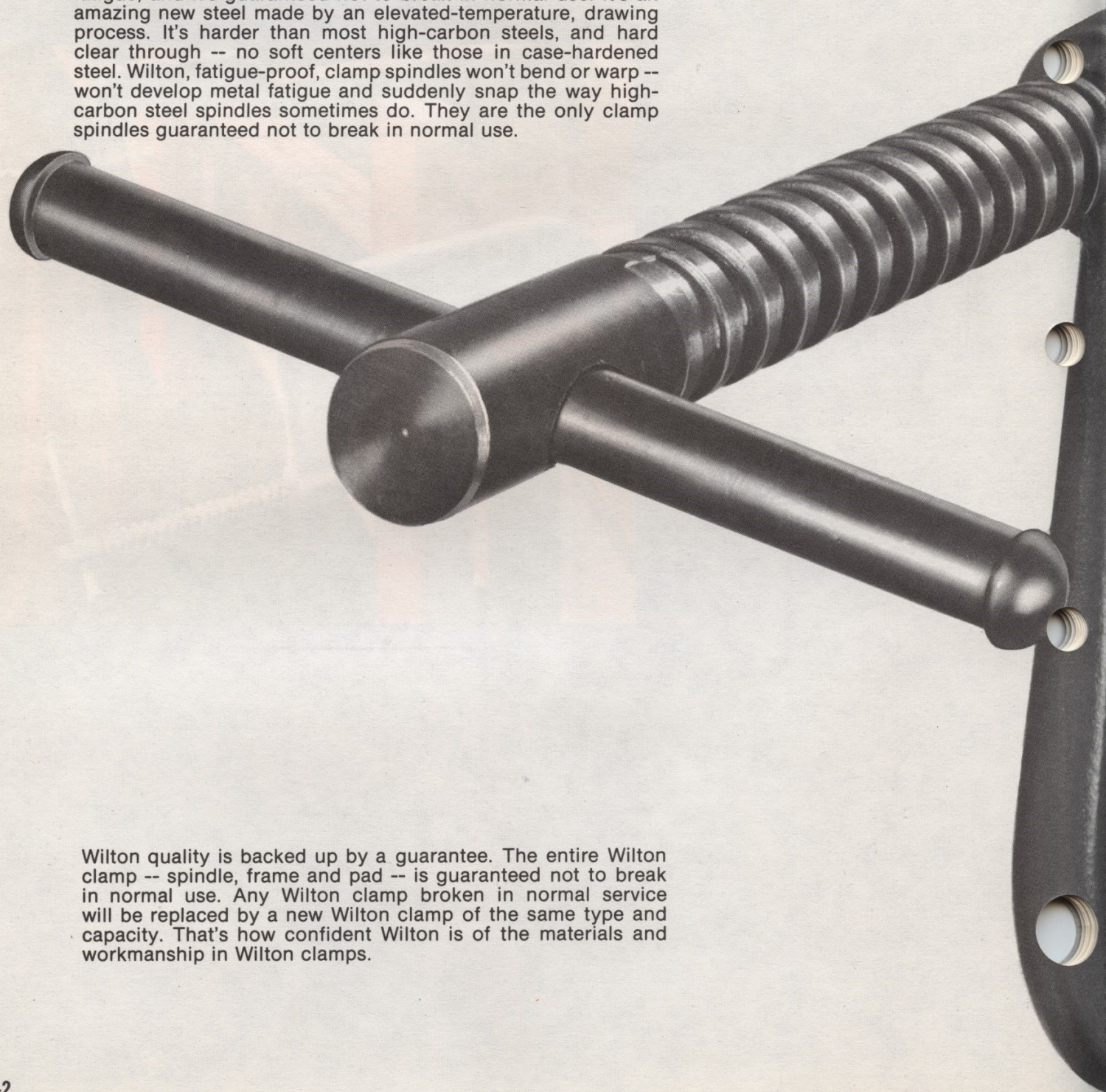
Catalog Number	Jaw Size	Maximum Opening	Shipping Wt., Lbs.
86	3″ x 6½″	7″	11 lbs.

WILTON®

C-Clamps & Special Clamps

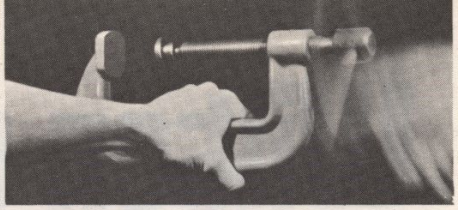
Wilton brings you the strongest spindle ever developed.

It's steel that's hardened clear through . . . won't bend, warp or fatigue, and it's guaranteed not to break in normal use. It's an amazing new steel made by an elevated-temperature, drawing process. It's harder than most high-carbon steels, and hard clear through -- no soft centers like those in case-hardened steel. Wilton, fatigue-proof, clamp spindles won't bend or warp -- won't develop metal fatigue and suddenly snap the way high-carbon steel spindles sometimes do. They are the only clamp spindles guaranteed not to break in normal use.

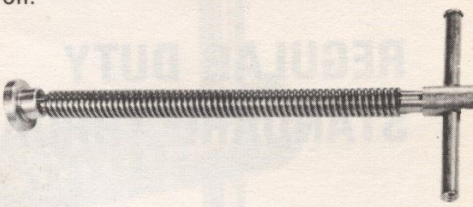


Wilton quality is backed up by a guarantee. The entire Wilton clamp -- spindle, frame and pad -- is guaranteed not to break in normal use. Any Wilton clamp broken in normal service will be replaced by a new Wilton clamp of the same type and capacity. That's how confident Wilton is of the materials and workmanship in Wilton clamps.

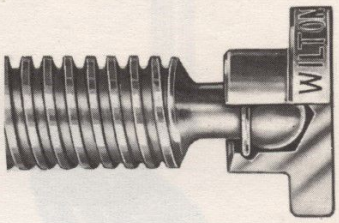
HERE ARE MORE GOOD REASONS TO SPECIFY WILTON C-CLAMPS



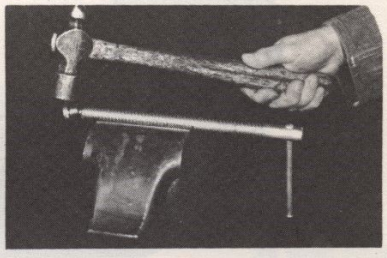
Never need greasing -- never need oiling! Wilton fatigue-proof spindles are factory sealed for life with Molybdenite -- the new, dry lubricant that won't wear off, won't rub off.



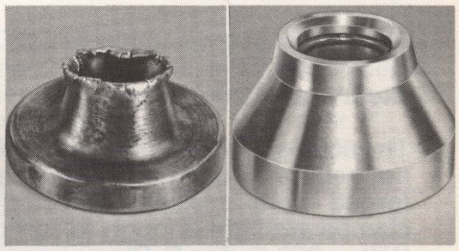
Molybdenite protects spindle against rust -- won't pick up abrasive dirt, chips or filings. These are the cleanest, strongest, smoothest operating spindles ever made.



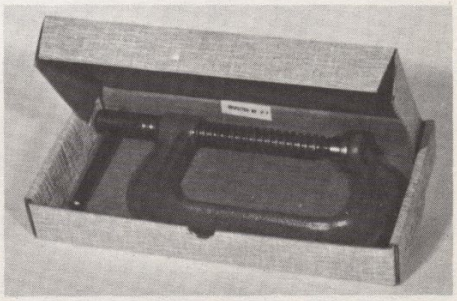
Wilton C-Clamps have an exclusive, Perma-Pad swivel. A steel retaining ring holds the pad in place on the ball end of the screw -- lets it swivel to bear evenly on clamped part.



Tests show Perma-Pad swivels withstand even repeated hammer blows -- will never come off in normal usage.



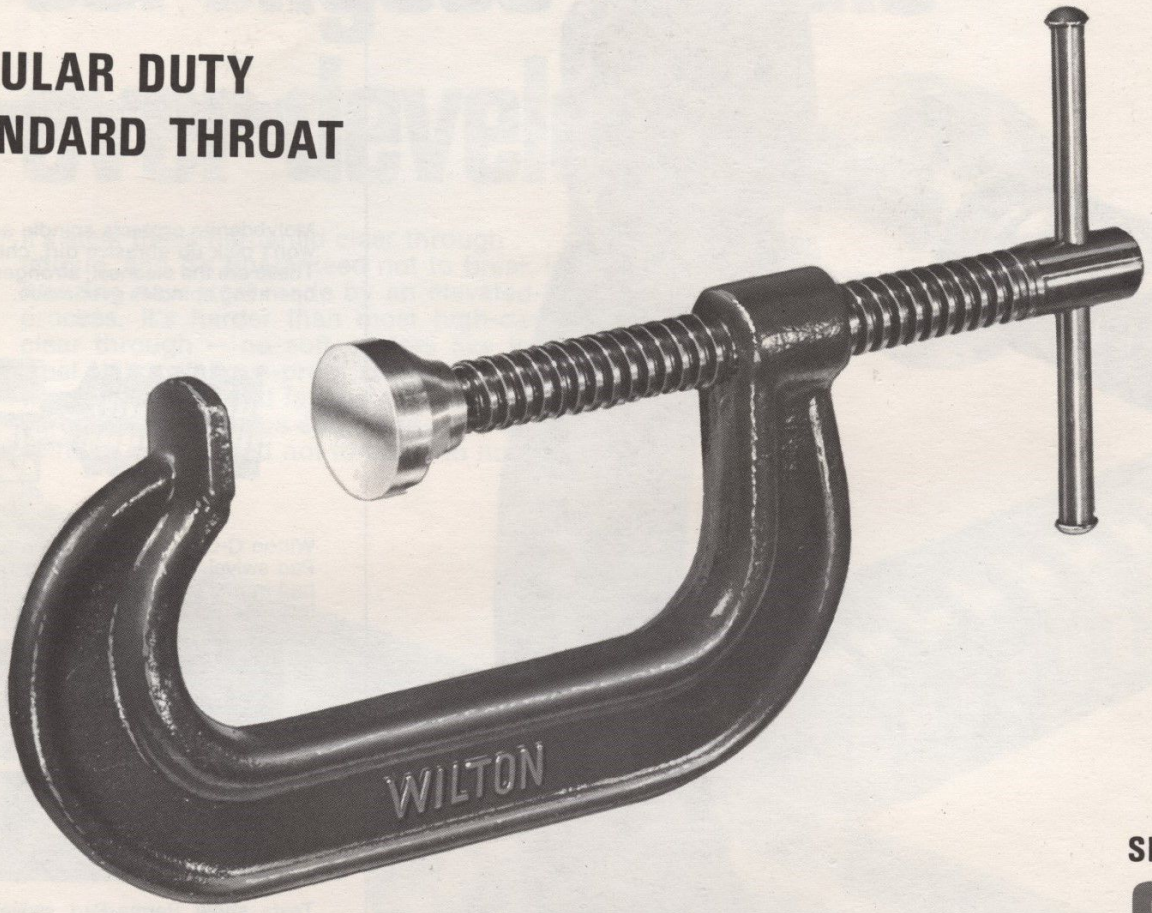
Crimped pad used on C-Clamps of ordinary design and manufacture pop off quickly under pressure of hammer. Wilton's Swivel Pad stayed in place and stayed useable.



Here's another example of Wilton's thoroughness. Each Wilton C-Clamp is individually packaged for easy storage and protection -- clearly labelled for quick identification.

Wilton duty-rated forged

REGULAR DUTY STANDARD THROAT



SERIES

800

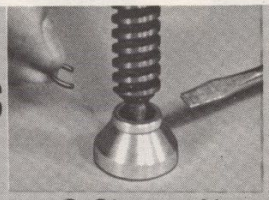
The Series 800 has the strength and "beef" of forged steel because it is forged steel. But it has a price like a cast clamp price.

The 800 Series is recommended for regular-duty work not requiring unusual throat depth. Since it's drop forged from specially selected steels, 800 Series clamps are light enough for production line use. Wilton 800 Series C-Clamps conform to federal specification GC406a, Type 1, Class A, Grade a, Style 1.

These clamps are equipped with Wilton Perma-Pads, guaranteed not to come off in normal use, and with lifetime lubricated spindles of hardened-clear-through steel. The spindle is threaded with a special, precison-cut, single-lead, Acme thread. All 800 series are finished in grey enamel. Bulk-packed in partitioned, master carton.

Catalog Number	Capacity	Throat Depth	Spindle Diameter	Minimum Proof Test Lbs.	Weight Lbs.
802	0" - 2"	1 13/16"	9/16"	2700	2
803	0" - 3"	1 15/16"	9/16"	3000	3
804	0" - 4"	2 5/16"	5/8"	3700	3
806	0" - 6"	2 15/16"	5/8"	4500	4
808	2" - 8"	3 7/16"	3/4"	5200	6
810	2" - 10"	3 3/4"	3/4"	6000	9
812	2" - 12"	3 7/8"	3/4"	8000	13

PERMA-PAD® ADAPTOR SWIVELS



Here's the easy way to update all your C-Clamps. Now you can install PERMA-PAD swivels on any C-Clamp (regardless of manufacturer) having one of the spindle diameters shown below. Only tool required for installation is an ordinary screwdriver.

Catalog Number	Major Diameter	Approx. Spindle Ball Diameter
821-1	1"	7/16"
821-2	1 1/8"	7/16"
821-3	1 1/4"	1/2"

steel C-clamps.

REGULAR DUTY
EXTRA DEEP THROAT

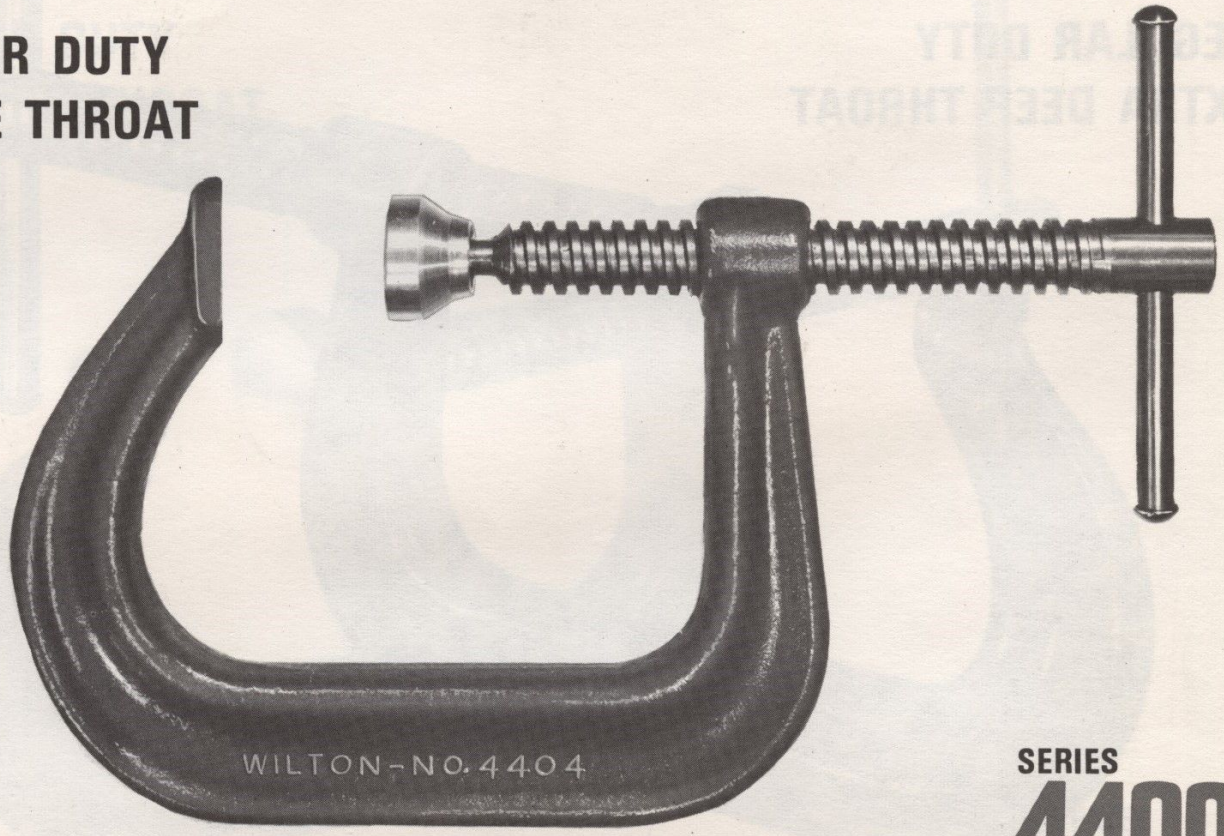
SERIES
400

Here is a C-Clamp that combines greater throat depth with the added strength of drop forged steel. All the other Wilton exclusives, too, including individual boxing, grey lacquered finish, and patented Perma-Pads. Precision cut single lead Acme thread. Conform with Fed. Spec. GGG-C-406a, Type 1, Class A, Grade a, Style 1 and 2. Sizes No. 408 through 412 available with full length spindles at 15% additional charge. Extra deep throat; from 2″ to nearly 6″, in seven sizes. Heavier, stronger spindle screws and handles.

Catalog Number	Capacity	Throat Depth	Spindle Diameter	Minimum Proof Test Lbs.	Weight Lbs.
402	0″ - 2″	2″	9/16″	3300	1
403	0″ - 3″	2½″	5/8″	3500	2
404	0″ - 4″	2⅞″	3/4″	4100	3
406	0″ - 6″	3⅝″	3/4″	5400	4
408	0″ - 8″	4½″	3/4″	5900	6
410	2″ - 10″	5⅜″	3/4″	6200	9
412	2″ - 12″	5¾″	7/8″	9300	13

Wilton duty-rated forged

REGULAR DUTY SQUARE THROAT



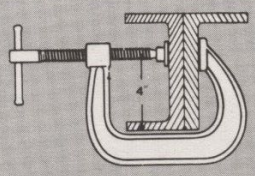
SERIES 4400

You get a full four inches of clamping depth in a rugged, four-inch, forged-steel clamp. That's what square-throat capacity means. Wilton's 4", Series 4400 clamp has greater throat depth than most 6" clamps. And Wilton's Series 4400, 6" and 8" clamps give you 37% more throat depth than standard, "deep-throat" C-Clamps. They do twice as many jobs by solving problems of insufficient throat depth. Wilton's forged steel frames are guaranteed against breakage -- so are the lifetime-lubricated, "hardened-clear-through" spindles with the Perma-Pad® swivels. Wilton Series 4400 clamps are finished in grey enamel, and each is individually boxed.

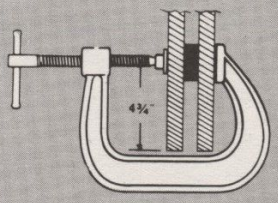
Here's how square-throat capacity pays off. The clamping jobs diagrammed below are handled easily with a Wilton, 4", square-throat, Series 4400 clamp. Clamping with any other model would require an 8" or 10" clamp.

Catalog Number	Capacity	Throat Depth	Spindle Diameter	Minimum Proof Test Lbs.	Weight Lbs.
4403	0" - 3"	3"	5/8"	3500	2
4404	0" - 4"	4"	3/4"	4100	3
4406	0" - 6"	5"	3/4"	5400	5
4408	2" - 8"	6"	3/4"	5900	7

COMPARE . . .



Neither a 4, 6 or 8-inch Series 400 clamp could handle this clamping job . . . you'd have to go all the way to the 10-inch size! But Wilton's 4406 C-Clamp will handle it with depth to spare. And the super deep 4408 has even greater depth than a Series 400, 12-inch clamp.



Clamping the L beam above to a U beam would ordinarily require an 8-inch Series 400 clamp. But a 4-inch Wilton square throat does it with ease. With a square throat you can do more jobs with fewer (and smaller) clamps.

steel C-clamps.

EXTRA HEAVY DUTY STANDARD THROAT

SERIES 0

The ultimate in massive ruggedness. Truly indestructible. Such strength is often justified on the basis of safety in shipbuilding, heavy construction, or lifting by crane. Frames are forged carbon steel and heat treated. Each screw is machined from a single piece of square, cold drawn alloy steel, hardened and tempered. All clamps available with full-capacity spindles at additional charge. Clamps are shipped in bulk and come in the natural steel finish. Comform with Fed. Spec. GGG-C-406a, Type 1, Class D.

Catalog Number	Capacity	Throat Depth	Spindle Diameter	Minimum Proof Test Lbs.	Weight Lbs.
0	0" - 3/4"	3/4"	3/8"	2,800	1/2
1	0" - 1 1/4"	1 1/8"	9/16"	5,600	1
1 1/2	0" - 1 3/4"	1 5/8"	9/16"	8,750	1 3/4
2	7/8" - 2 1/4"	1 3/4"	9/16"	12,500	3
3	1/4" - 3 1/4"	2 3/8"	7/8"	16,250	7
4	1 1/2" - 4 1/2"	2 3/4"	7/8"	20,000	10
5	2 1/2" - 5 1/2"	3 1/8"	7/8"	23,800	13
6	1 5/8" - 6 1/2"	3 3/8"	1 1/8"	27,500	17
8	3 5/8" - 8 1/2"	4 1/8"	1 1/8"	31,250	24
10	5 5/8" - 10 1/2"	4 1/8"	1 1/8"	35,000	29
12	7 5/8" - 12 1/2"	4 1/2"	1 1/8"	40,000	40

HEAVY DUTY STANDARD THROAT

SERIES 100

Recommended for heavy industrial and construction work demanding complete reliability. Frames are forged of special quality carbon steels, and heat treated. Spindles are turned from single pieces of square bar stock, threaded modified National Coarse, and come with hardened Wilton's exclusive Perma-Pad swivels. Individually boxed and finished in grey lacquer. Conform with Fed. Spec. GGG-C-406a, Type 1, Class B, Grade a, Style 1.

Catalog Number	Capacity	Throat Depth	Spindle Diameter	Minimum Proof Test Lbs.	Weight Lbs.
102	0" - 2"	1 1/2"	9/16"	7,500	2
103	0" - 3"	2"	5/8"	8,750	3
104	0" - 4"	2 3/8"	3/4"	10,000	5
106	2" - 6"	2 1/2"	3/4"	11,250	6
108	4" - 8"	2 5/8"	3/4"	12,500	8
110	6" - 10"	2 3/4"	3/4"	13,750	9
112	8" - 12"	2 7/8"	3/4"	15,000	13

Wilton welders' clamps

REGULAR DUTY SQUARE THROAT

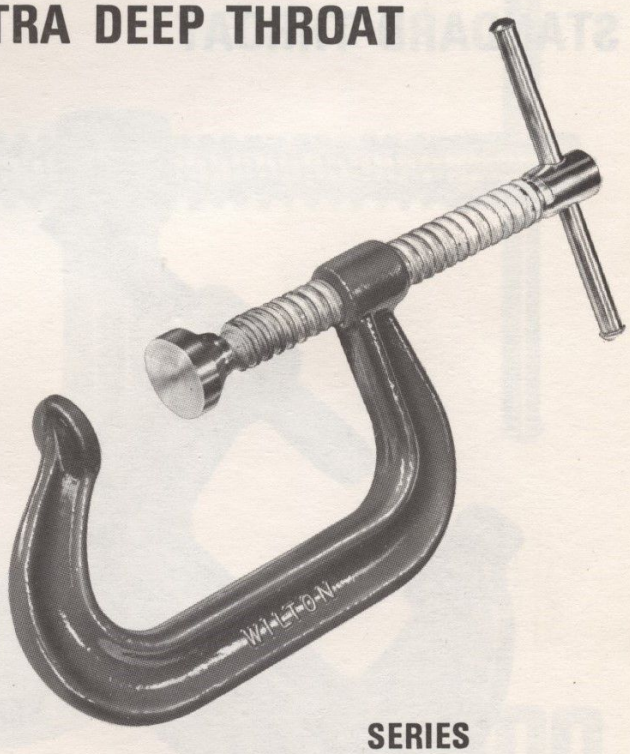
SERIES 4400-S

Square throat capacity -- same, forged steel frames used on Series 4400 clamps (page 6). Wilton welders' clamps with anti-spatter shields are designed specifically for constant duty in welding shops. You get complete spatter protection plus a whole lot more. Vastly increase throat depth handles twice as many welding jobs as conventional clamps of equal pad-to-anvil capacity. Spindles machined from special quality steel and hardened clear through. Lifetime lubrication. Each clamp finished in grey enamel and individually boxed.

Two-way splatter protection. 16-gauge, steel splatter shield encloses and protects spindle. No sharp corners. No end caps to come off.

Spindles, handles and pads are copper plated for greater splatter protection. Welding "berries" can't stick.

REGULAR DUTY EXTRA DEEP THROAT



SERIES 400-P

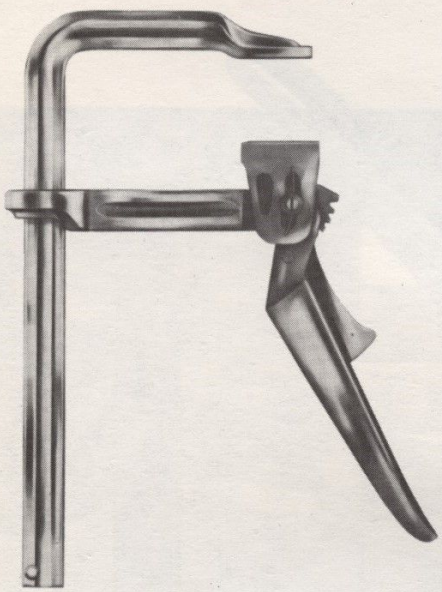
Wilton Series 400-P with same frame sizes as Wilton Series 400 clamps (page 5). Anti-spatter, copper-plated spindles added. The Series 400-P features strong, forged-steel frames. All clamps individually boxed and guaranteed against breakage.

Catalog Number	Capacity	Throat Depth	Spindle Diameter	Minimum Proof Test Lbs.	Weight Lbs.
4403-S	0" - 3"	3"	5/8"	3500	2
4404-S	0" - 4"	4"	3/4"	4100	3
4406-S	0" - 6"	5"	3/4"	5400	5
4408-S	2" - 8"	6"	3/4"	5900	7

Catalog Number	Capacity	Throat Depth	Spindle Diameter	Minimum Proof Test Lbs.	Weight Lbs.
402-P	0" - 2"	2"	9/16"	3300	1
403-P	0" - 3"	2 1/2"	5/8"	3500	2
404-P	0" - 4"	2 7/8"	3/4"	4100	3
406-P	0" - 6"	3 5/8"	3/4"	5400	4
408-P	0" - 8"	4 1/2"	3/4"	5900	6
410-P	2" - 10"	5 3/8"	3/4"	6200	9
412-P	2" - 12"	5 3/4"	7/8"	9300	13

Wilton special clamps

FABRICATORS' SPEED CLAMP REGULAR DUTY

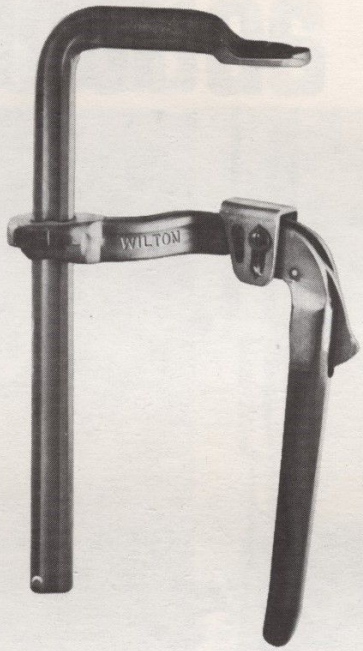


SERIES **1000**

Wilton's smooth-working, quick-acting fabricators' clamp saves valuable time in assembling, fabricating and welding. Simply slide the clamp head along the bar 'til it lightly grips the work -- then swing the clamping lever in toward the bar to grip snugly and permanently. The cam and ratchet action of the fabricators' clamp enables you to achieve the desired amount of clamping force quickly and easily because clamping force is proportional to handle travel. Release instantly by pressing quick-release trigger.

Catalog Number	Capacity	Throat Depth	Minimum Proof Test Lbs.	Weight Lbs.
1005	5″	2⅜″	2000	2
1006	6″	3¼″	2400	2
1008	8″	4″	2400	2½
1009	10″	4¾″	2800	3
1012	12″	5½″	3600	4
1016	16″	4¾″	3600	5

FABRICATORS' SPEED CLAMP HEAVY DUTY



SERIES **2100**

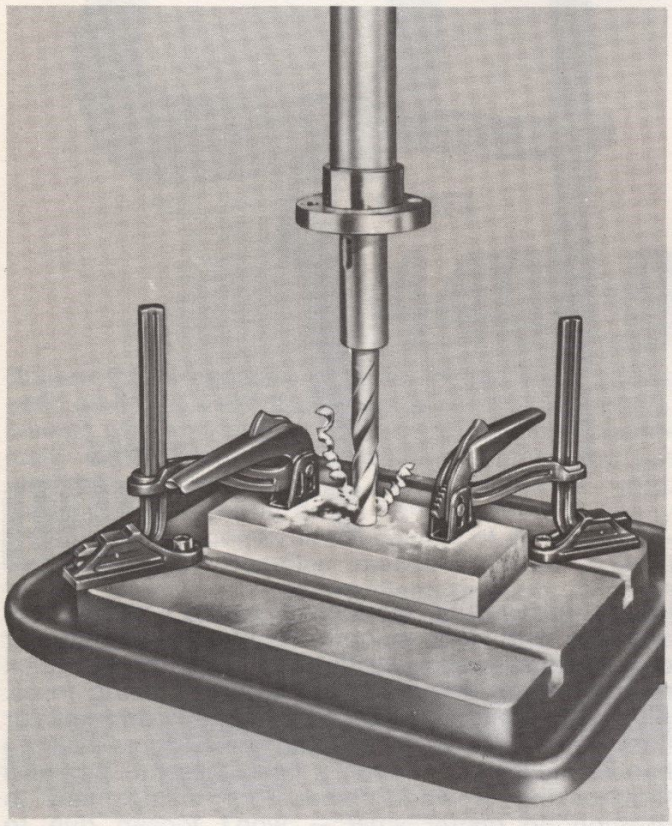
Wilton, heavy-duty, fabricators' speed clamps close and lock with same smooth, rapid action as regular duty clamps -- release with just a rouch of the quick release trigger -- but provide greater holding force. All-steel, spring-tempered parts make them ideal for heavy industrial use. Clamping force increases with handle movement -- even a light pressure provides firm locking of work. Fabricators' clamps stay in position no matter what -- won't loosen due to vibration or other causes.

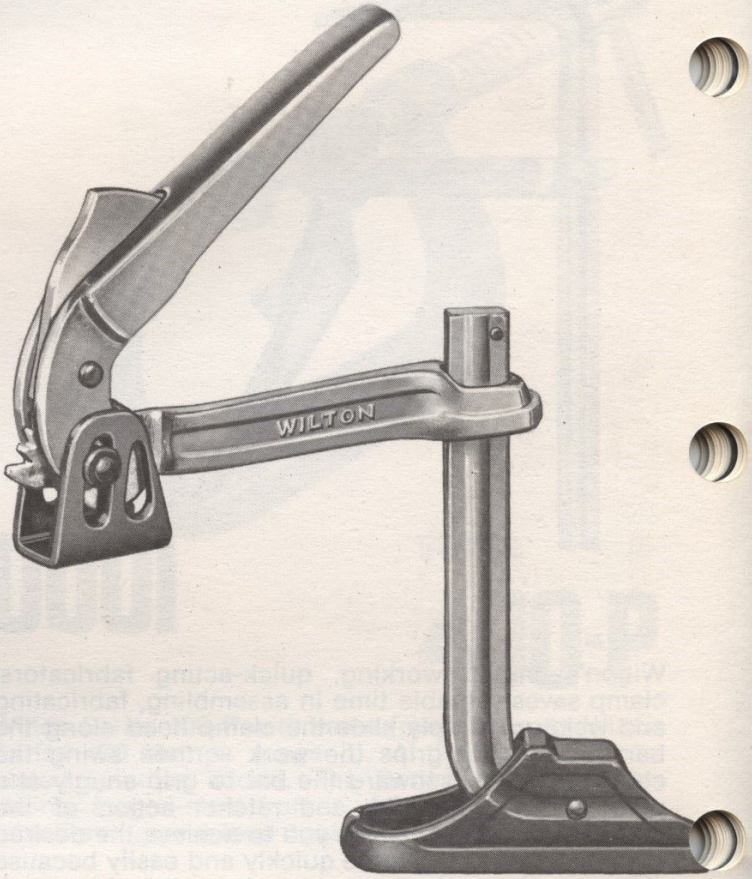
Catalog Number	Capacity	Throat Depth	Minimum Proof Test Lbs.	Weight Lbs.
2110	10″	4¾″	5400	6
2112	12″	5½″	5400	7

Wilton tool room and product

MACHINE SPEED CLAMP

SERIES
1800





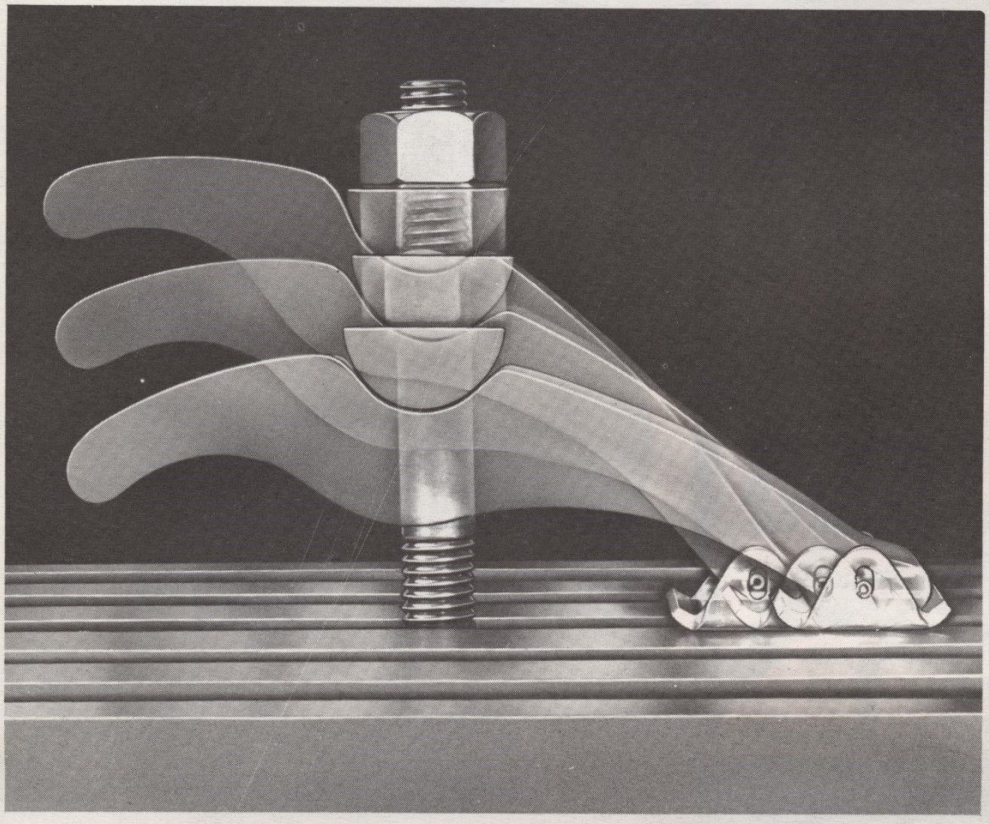
Each Wilton Machine Speed Clamp is a complete assembly -- just slide it into a T-slot and put it to work. Clamping arm slides down to workpiece height on the clamp bar. Swinging the clamping lever down tightens the arm on the piece with up to 3000 pounds of force. Clamping force increases with lever movement -- the further you swing the lever the tighter you clamp the part. To release, just hit the quick release trigger. Then slide the arm up -- or slide the entire clamp away in the T-slot.

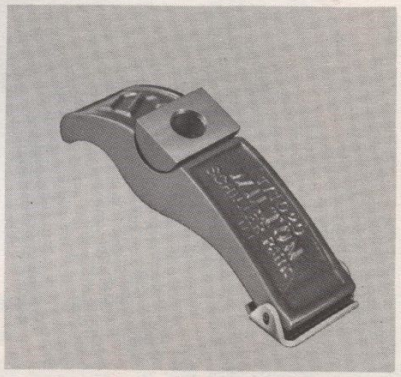
Catalog Number Pair	Capacity	Throat Depth	Stud Size	Maximum Clamping Pressure at 2" Vert. Height Lbs.	Weight Lbs. Pair
1810	0" - 3 7/8"	3 7/8"	1/2"	1200	7
1820	0" - 7 3/4"	3 7/8"	9/16"	1650	10
1830	0" - 4 3/4"	4 3/4"	13/16"	3000	12

ion machine clamps

AUTO SET (RITE-HITE) CLAMP

SERIES
1000as





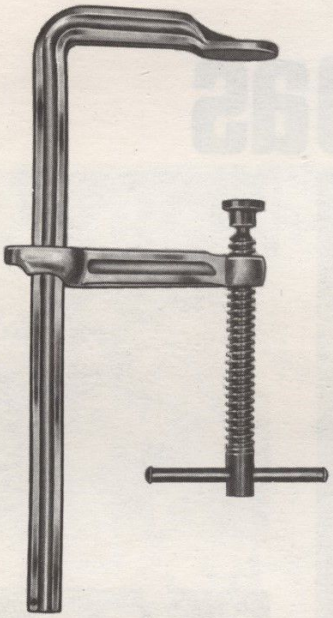
Save set-up time and avoid makeshift clamping. On one workpiece, dozens or even hundreds, Wilton's Auto Set clamps provide quick, safe clamping on any standard machine table with T-slots. And it's so easy to set up with Wilton Auto Set clamps. A self-aligning thrust block adjusts itself automatically to keep the clamping stud vertical regardless of the clamping angle -- clamping thrust is always straight down with Auto Set. The "holding" end of the clamp rests on workpiece with a radius on its nose providing sound bearing at any angle. The opposite end of the clamp rests directly on the table -- no riser blocks or spacers to change or adjust. A "soft shoe" on the clamp protects the table -- spreads pressure over a large area.

Wilton Auto Set clamps are cast from ductile alloy steel and have a tensile strength of up to 60,000 psi. Clamping height varies from 0" to 4½" with the fulcrum end resting on the table. Spacer blocks and longer studs permit indefinite extension of the clamping height.

Catalog Number Pair		Capacity	Stud Size	Overall Length	Minimum Proof Test Lbs.	Weight Lbs. Pair
Wilton	Rite-Hite					
1001	375	0" - 1⅝"	⅜"	4"	8,000	2
1000	501S	1" - 1¾"	½"	4¼"	10,000	2
1010	500	0" - 2½"	½"	5¾"	10,000	2½
1020	625	0" - 3¾"	⅝"	6¾"	12,500	5
1030	751S	0" - 4"	¾"	7"	20,000	8
1040	750	0" - 5½"	¾"	9"	20,000	8½
1050	1001S	0" - 4½"	1"	9"	60,000	20

Wilton special clamps

ASSEMBLY CLAMP



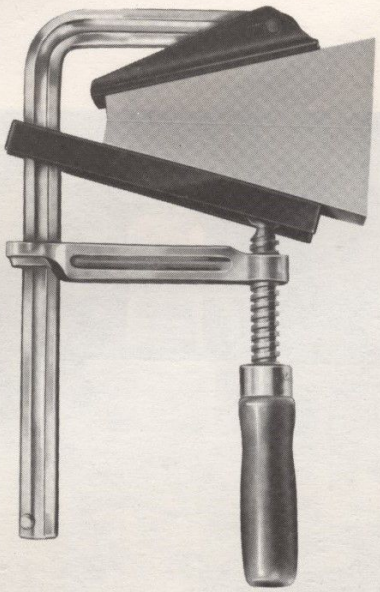
SERIES **1200**

The all new steel clamp was specially designed for sheet metal, wood glueing and light fabricating. Set-up is quick because the sliding member moves easily to a rough fit and final pressure adjustment is made with the steel spindle.

Manufactured from high-tensile steel and hardened, the Wilton assembly clamp is light — quick and convenient to use — but has a tensile strength of 170,000 pounds. Capacity is adjustable — up to 12″ on largest model.

Catalog Number	Capacity	Throat Depth	Minimum Proof Test Lbs.	Weight Lbs.
1205	5″	2⅜″	900	1
1206	6″	3¼″	1500	1½
1208	8″	4″	2200	2½
1212	12″	5½″	3650	5
1216	16″	4¾″	3650	6

AREA PRESSURE CLAMP



SERIES **1300**

New quick-adjusting clamp holds wedge shaped pieces securely without sliding and without the use of special spacers, grippers or fillers. Extra-large, self aligning jaws automatically adjust themselves to the surface angle. Set-up is quick. Clamping head slides on bar to bear on workpiece. Clamping pressure is applied by a husky, square-threaded screw with a large wooden handle. Clamping pressure is always even. Workpiece displacement is eliminated by this strong and durable, Wilton Area Pressure Clamp.

Catalog Number	Capacity	Throat Depth	Minimum Proof Test Lbs.	Weight Lbs.
1308	8″	4″	1500	4
1312	12″	5½″	3650	7

WILTON®

PowRarm Work Positioners

PowRarm meets the needs of fixed job locations. In this assembly operation the workpiece is quickly positioned and locked securely for one or more operations. Shown: PowRarm Model 301.

PowRarm attachments provide a wide range of capacities for small and large workpieces, shapes and sizes — one reason why PowRarm meets the needs of experimental work. Shown: Model 345.

PowRarm is ideal for work station applications. It firmly holds the workpiece at any required work angle or position and allows the complete use of both hands for production.

PowRarm work positioners for work station

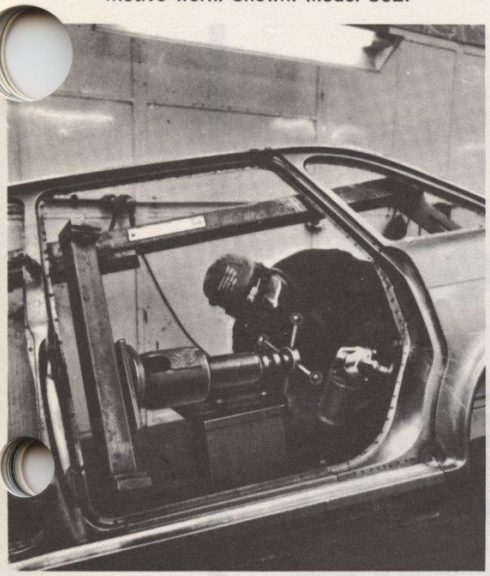
PUTS THE WORKPIECE WHERE YOU WANT IT — HOLDS IT TIGHT TO FREE BOTH HANDS FOR PRODUCTION

Much of the equipment used to step up work output, increase employee efficiency and automate production is costly to buy, limited in application and complicated to install. That's why, today, nothing contributes more to production for less investment than Wilton PowRarms — the full-swiveling, 360° deadlock work positioners. Here's why:

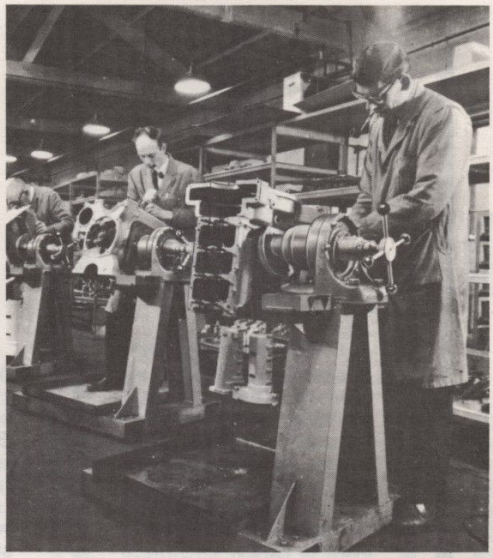
UNLIMITED APPLICATIONS! Aside from providing a wide range of models for every job size, PowRarms fit into any work situation — at a permanent work station or on any assembly line or production flow within a plant. On the workbench you clamp the piece into position just once — from then on PowRarm carries the weight. You can reposition the workpiece quickly, as often as you want with all the flexibility of PowRarm "wrist action." You work with both hands — faster, more accurately, easier all day.

PowRarm is equally adaptable to applica-

PowRarm, with self-contained hydraulic system, holds extra-heavy workpieces and mounts horizontally or vertically on portable production line stand. Ideal for automotive work. Shown: Model 302.



PowRarm easily handles big jobs of ½ ton or more. This unit, with its own hydraulic system, permits partial tension for workpiece repositioning, with full tension for holding. Shown: Model 304.



PowRarm's low cost and exceptional versatility makes it practical for assembly line applications. Compact design permits easy mounting for portable application. Shown: Model 344.

OPERATION . . . ASSEMBLY LINE PRODUCTION

tions such as assembly lines. Its initial low cost usually comes under the head of "tooling" and conveyor alterations are seldom necessary. Workpieces are individually positioned on PowRarms and can be repositioned during the various stages of assembly as they move along in the production flow — thus eliminating time-consuming clamping and unclamping.

PRODUCTION LEVELS RISE! — and remain high throughout the day because most man-handling of assemblies on the bench or on the line is eliminated and work efficiency is increased.

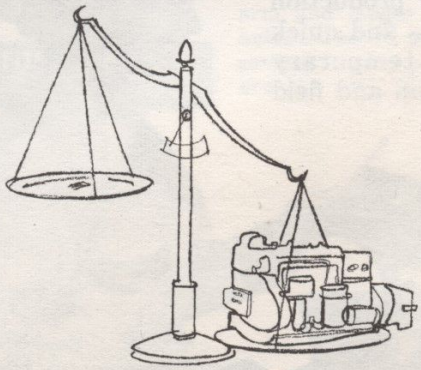
REJECTS DECREASE! Slips are costly on intricate assemblies. Because PowRarm keeps the workpiece rock steady — and in the position that's always exactly right for the tool and the operator — it easily can pay for itself on the first assignment.

IDEAL FOR RESEARCH AND DEVELOPMENT! A wide choice of types and models, plus a full range of accessories and attachments, makes the versatile PowRarm especially adaptable to research work where job requirements change from day to day.

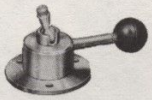
PowRarm handles any size job ...from ½ ounce to ½ ton or more!

Choose from a wide range of models for jobs the size of electronic printed-circuit boards to automotive engine assemblies. Larger models feature self-contained hydraulic system for maximum work-holding power, and 2-stage control for partial tension during repositioning and full tension for stationary holding.

Installation costs are near zero! PowRarm fits into any department or production line without complication. Just bring it in, set it up and it's ready to go. No costly alterations or time loss during installation.



THERE'S A POWRARM WORK POSITIONER

		
CATALOG NO.	**MIDGET 345**	**JUNIOR 343**
DESCRIPTION	New design increases capacity and provides more positive lock. Fast on-off action with horizontal handle. All parts are steel, cadmium plated. Mounting stud is 5/16-24.	Medium duty positioner for use with work up to 30 lbs. Fast on-off action with horizontal-moving lock handle. Body is cast aluminum with cadmium-plated steel parts. Mounting holes are ¼-20 std. threads on 2¼" centers. T-bracket allows interchanging attachments with larger units.
APPLICATION	Recommended for intricate electronic work including small printed circuits.	Ideal for electronics or aircraft work — recommended for use with Wilton precision vise or any special fixture.
MAX. WORK WT.	6 lbs. at 6"	30 lbs. at 6"
BASE DIAMETER	2½"	4½"
OVERALL HEIGHT	1¼"	5¼"
SHIPPING WT.	1 lb.	4 lbs.

PRODUCTION FLOW MOUNTINGS

Wilton provides a special line of PowRarm mounting attachments to speed and simplify production flow. These units provide fast, solid mounting of PowRarms on production line benches — and quick mounting in temporary shop installation and field service areas.

FITS POWRARM
343 • 344 • 345

Catalog No. 356

NEW STEEL BENCH CLAMP

All-steel bench clamp attaches quick and securely to bench tops up to 2" thick. Drilled and tapped for versatile mounting.

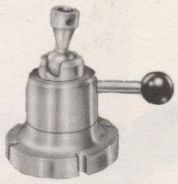
FITS POWRARM
311 • 301 • 303

Catalog No. 347

BENCH CLAMP

For field service and temporary shop installations. Securely fastens PowRarm to bench top up to 3¼" thick, yet eliminates need for bolt holes.

FOR EVERY PRODUCTION OR SPECIALIZED JOB

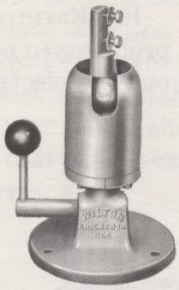


VEEP 344

New design provides more workholding capacity (up to 20 lbs.) and faster on-off action. Horizontal handle easily accessible and well below level of work. ½" receptacle with set screw for vise, printed circuit board holder or special fixture. Steel body, cadmium plated.

For light production assembly or electronic applications.

20 lbs. at 6"
3¾"
4¼"
3 lbs.

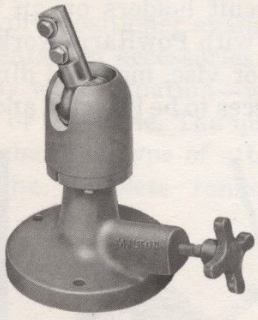


MECHANICAL 301

Extra-strong, heavy-duty positioner with exceptionally fast on-off action. Body is machined semi-steel. All steel parts cadmium plated for corrosion resistance. Mounting holes are 5/16-18 on center.

Designed for high production assembly line applications — and workpieces up to 70 lbs.

70 lbs. at 12"
6"
8½"
13 lbs.



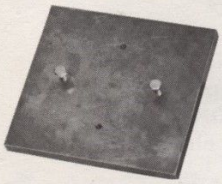
HYDRAULIC 303

Same size and strength as Model 301 with hydraulic locking action to increase work capacity to 150 lbs. Hydraulic system is hand-operated, self-contained and sealed with replaceable cups. Mounting holes are 5/16-18 on center.

Rated for heavy-duty assembly, welding, maintenance and tool room work.

150 lbs. at 12"
6"
7"
15 lbs.

AND SPECIAL ATTACHMENTS

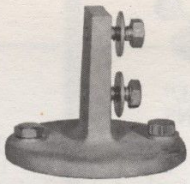


FITS POWRARM
343 • • 344

Catalog No. 348

BASE EXTENSION PLATE

Weighted 5 lb., 6 x 6" steel plate, drilled and tapped for PowRarm mounting. Eliminates need to bolt or clamp PowRarm to bench top. Provides solid footing, yet is easily pushed station to station.

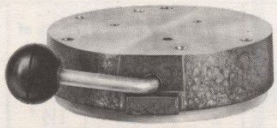


FITS POWRARM
343

Catalog No. 349

"T" BRACKET

Provides interchangeability of attachments between Junior PowRarm and larger units. Mounting holes on stems are 5/16-18 with 1" centers; holes on round portion are ¼" with 2¼" centers.



FITS POWRARM
343 • • 344

Catalog No. 357

VACUUM BASE

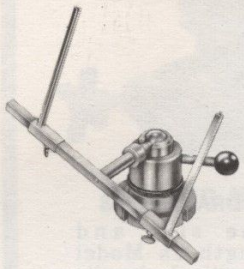
Allows fast, solid attachment to bench. Quickly removable by turning handle. Top is drilled and tapped for PowRarm mounting — and adds only 1½" to height of any unit.

PACKAGED PowRarm COMBINATIONS

POWRARM & ELECTRONIC ATTACHMENTS

A variety of printed circuit holders on an electronic vise are available for use with PowRarm work positioners. The use of a holder or vise, mounted directly to a PowRarm, allows workpieces to be inserted and removed quickly — yet positioned securely for the tool and operation during assembly.

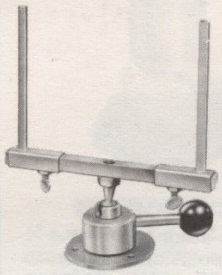
PowRarm combinations such as these are solving problems in positioning, holding and assembly throughout the electronics and allied industries.



STANDARD ADJUSTABLE PRINTED CIRCUIT HOLDER

Bracket adjusts horizontally from 3" to 10". Vertical posts are V-grooved 1/8" wide to 3/16" deep — allows workpieces to be inserted and removed quickly without adjusting vertical posts. Holder permits free access to circuit from both sides in any position. Can be mounted direct to Veep PowRarm No. 344 as illustrated, or 340.

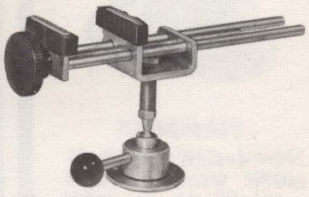
Catalog Number, Holder with 344 PowRarm	**372**
Shipping Weight	5 lbs.
Catalog Number, Holder Only	**369**
Width Adjustment	3"-10"
Height of Posts	6"
Shipping Weight	1½ lbs.



MINIATURE ADJUSTABLE PRINTED CIRCUIT HOLDER

Mounts directly on Midget No. 345 as illustrated. This compact assembly is designed for low cost printed circuit production. Brackets adjust horizontally 3" to 6". Vertical posts are V-grooved (1/8" wide, 3/16" deep) for speedy insertion and removal of workpiece, without adjusting posts.

Catalog Number, Holder with PowRarm	**371**
Shipping Weight	2 lbs.
Catalog Number, Holder Only	**359**
Width Adjustment	3"-6"
Height of Posts	4"
Shipping Weight	1 lb.



ELECTRONIC VISE

Designed for small sub-assemblies and printed circuit boards. Holds work firmly but gently. Jaws are rubber protected. Constructed of heavy-gauge steel with double slide bars—opening adjusts quickly and precisely with crank handle. Attaches directly to Midget PowRarm No. 345 as illustrated, or Veep PowRarms No. 340, 344; also Junior PowRarm No. 343 by removing top plate.

Catalog Number, Vise with 345 PowRarm	**353**
Shipping Weight	3 lbs.
Catalog Number, Vise Only	**352**
Jaw Width	2⅛"
Jaw Opening	6½"
Shipping Weight	2 lbs.

PowRarm VISE COMBINATIONS

"MECHANICAL" COMBINATIONS

For rapid mass production lines, the "Mechanical" positioner combination offers heavy-duty Machinists' Vises with 2½ or 3" jaws widths. Work load to 70 lbs. Also available with light-duty jewelers' vise, with 2" jaw width.

THE "VEEP" COMBINATION

This combination is ideal for speeding up electronic or similar light assembly. Low-cost Wilton Utility vise provides top dependability. Smooth steel jaws standard; jaws width, 2¼".

THE "JUNIOR" COMBINATION

Designed for electronic, or other light assembly, the "Junior" combination features a precision jewelers' vise. Built to utmost accuracy. Great locking strength despite small size. Smooth steel jaws are standard.

	Combination Catalog Number	Description	Jaw Width	Maximum Opening	Depth of Throat	Shipping Wt.
"MECHANICAL"	3015	Machinists' Vise No. 250N	2½"	3"	2"	24 lbs.
	3013	Machinists' Vise No. 300N	3"	4¾"	2⅝"	37 lbs.
	3012	Jeweler Vise No. 20	2"	2¼"	1½"	17 lbs.
"VEEP"	364	Utility Vise No. 354	2¼"	2¼"	1½"	5 lbs.
"JUNIOR"	341	Jeweler Vise No. 20N	2"	2¼"	1½"	8 lbs.

ATTACHMENT SELECTOR CHART

Customize any PowRarm for any application

PowRarm is the most versatile work positioner available. A complete selection of attachments and accessories lets you adapt PowRarm to almost any work situation—without almost any installation costs or lost time. The quick-check chart below shows the number and type of attachments that are available for the complete range of PowRarms.

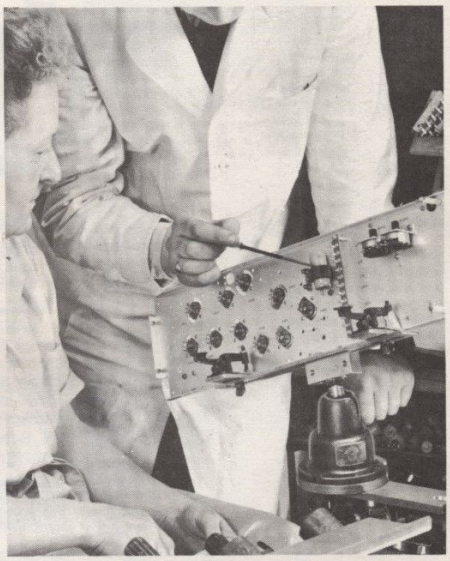
PowRarm Cat. No.	MIDGET 345	VEEP 344	JUNIOR 343	MECHANICAL 301	HYDRAULIC 303
Mounting Attachments	356	356 348 357	356 348 357	347	347
Vise Attachments	352	352 354	343 352	20N 250N 300N	20N 250N 300N
Printed Circuit Holders	359	359 369			
Special Accessories			349	349	349

PowRarms at work

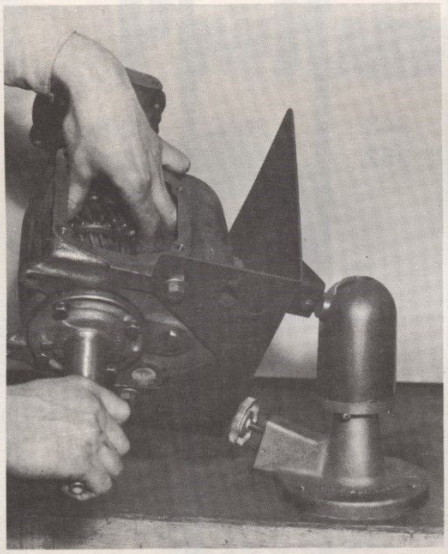
Wilton PowRarms have countless applications, some of which are shown below. There's a PowRarm model to handle almost any size workpiece — from ½ ounce to ½ ton. Second, these work-saving units are adaptable to integration with workpieces on assembly lines. Third, PowRarms are complete, ready-to-use units. In addition, a complete line of accessories is available for special workholding applications. PowRarms are also adaptable to custom-made fixtures by the user.

PowRarm is easily adaptable to a custom-made fixture, such as this welding fixture designed by the user, Shown: Model 343.

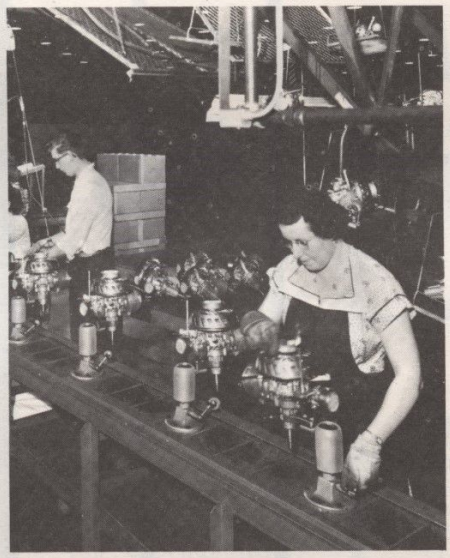
Model 343 PowRarm with user-made (1) mounting base and (2) clamping attachment welded on swivel arm.



Ideal for experimental one-of-a-kind work, PowRarm becomes an integral part of the workpiece until its completion. Shown: Model 343.



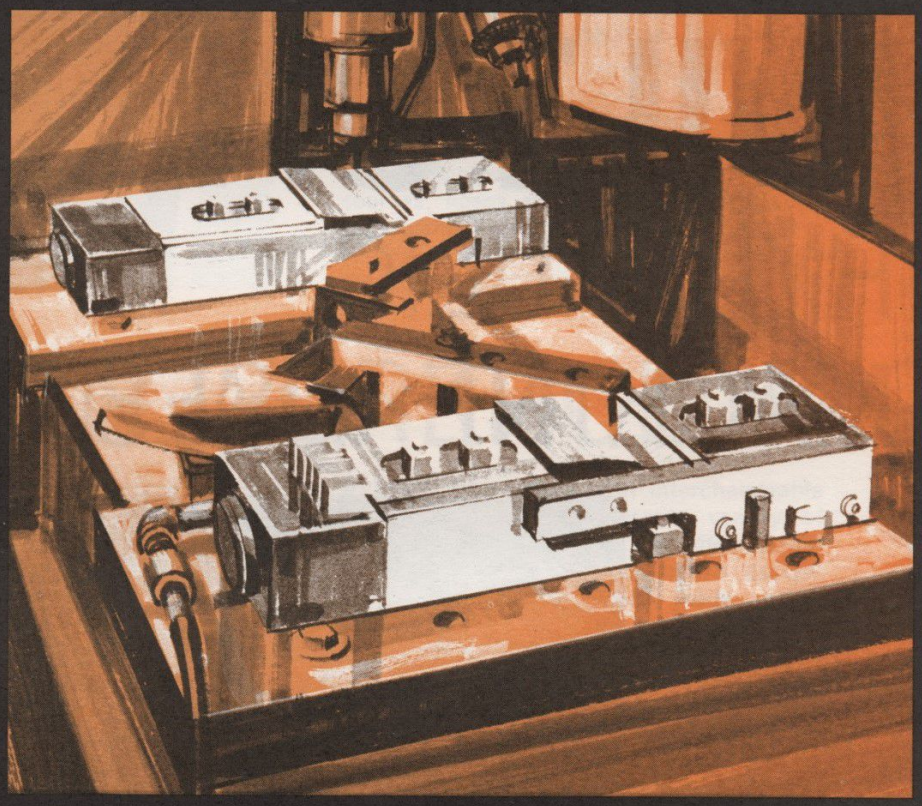
With this user-designed fixture, PowRarm easily and firmly holds a weighty, difficult-to-handle workpiece. Shown: Model 303 Hydraulic.



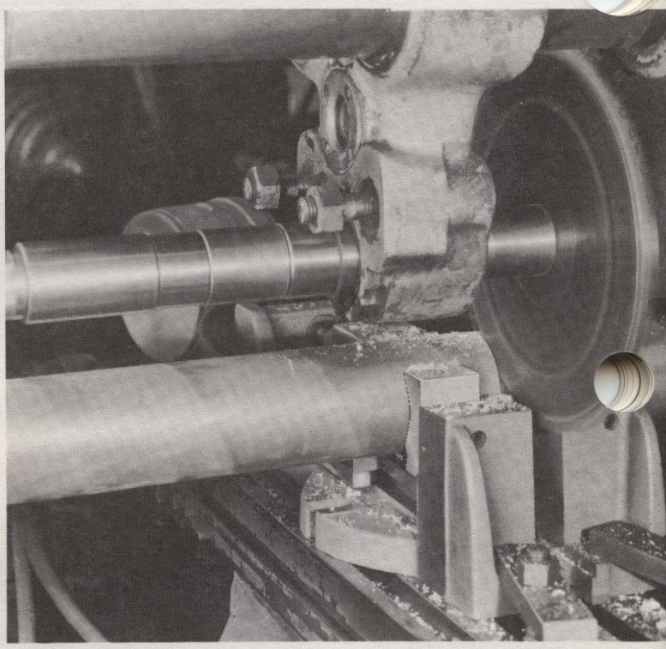
In this conveyorized production line, 100 PowRarm Models 301 are used to hold gasoline engines for pre-assembly.

Smallest PowRarm with bench clamp and electronic vise is used for quick, secure placement of electronic workpieces. Model 345.

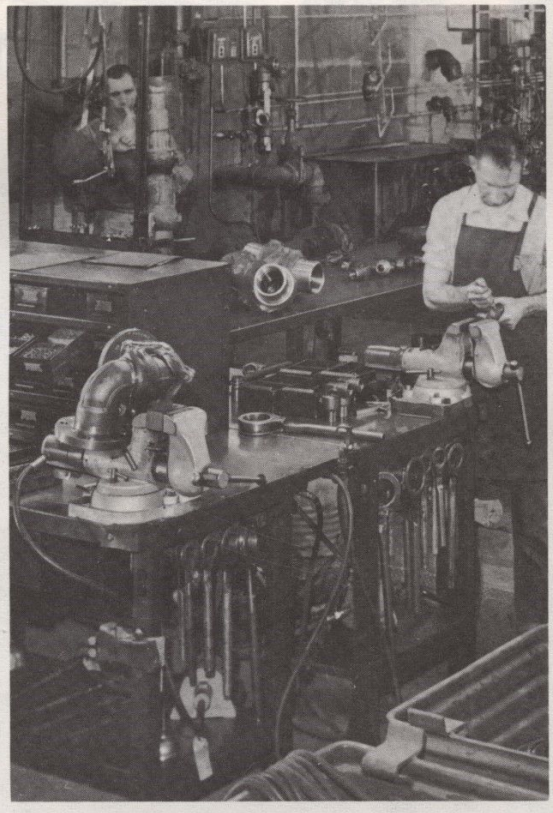
WILTON®
Hydraulic Vises

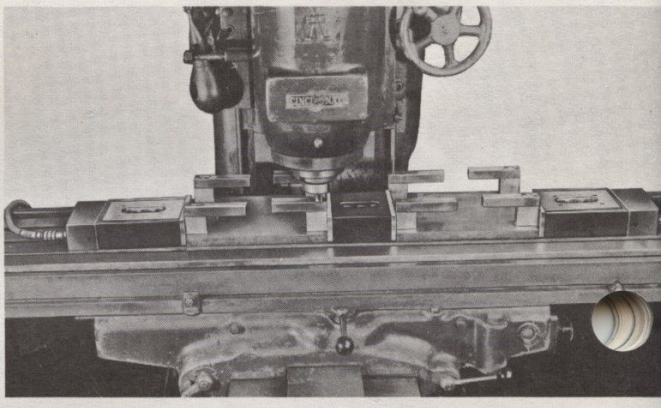


This MILOMATIC machine vise has been adapted for cut-off work using a 16" diameter abrasive wheel or 10" diameter milling cutter as shown. Hardened steel pipe jaws can handle ¼" to 4½" diameters, and are easily replaced with standard flat jaw faces.



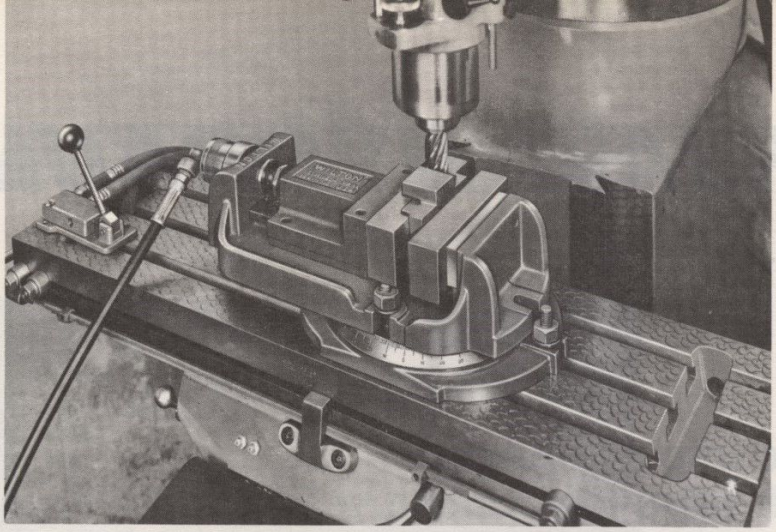
WILTON
HYDRAULIC MACHINE VISES AUTOMATE



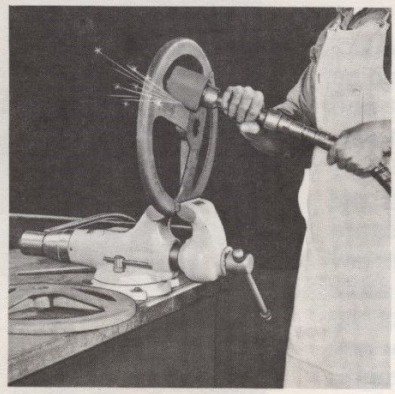


Double PowRjaw setup permits machining of two workpieces in sequence for automated operations—eliminates machine down time and increases productivity. A single stationary jaw with a movable jaw on either side handles two workpieces on the same machine.

These WILTOMATIC air/hydraulic bench vises permit fast, accurate assembly of valves. Clamping action such as this eliminates worker fatigue . . . assures precision parts assembly to keep production levels and quality high. Wiltomatic locking forces can be selected to fit component from heavy castings to fragile pieces.



This MILOMATIC Machine Vise with special jaw adaptors can do double duty as an automated production line fixture, or as an automated machine vise. A flick of the air control valve instantly locks the workpiece in this drilling and routing operation. The low profile, small base area and graduated swivel aids in positioning the workpiece on this small machine table.



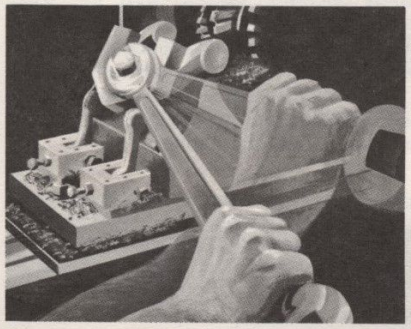
This Wiltomatic air/hydraulic bench vise applies more than two tons of locking force in this foundry grinding operation. Equipped with a foot control, the vise frees both hands for production.

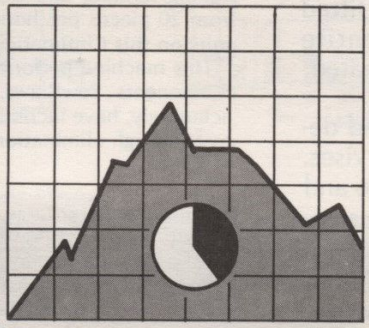
AUTOMATED CLAMPING matches the speed of your new production machines or modernizes your old machines for increased production. You lose money every time a worker picks up his wrench to hand tighten a clamp or nut.

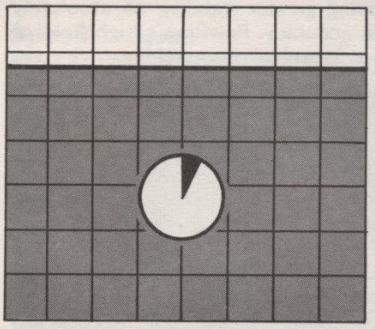
SAVE MONEY by fully using your expensive production machines. Wilton hydraulic clamping systems are fast. Production rates are higher, machine loading time is reduced. Often, this means a worker can operate two machines, or work double setups on the same machine. The result is more production.

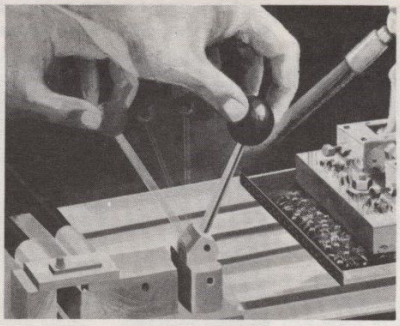
A BASIC IDEA behind the Wilton clamping tools is versatility. The various components — air control devices, hydraulic power sources, hoses and fittings, and hydraulic work elements—can be assembled to form simple or complex clamping systems with the ease of an "Erector" set.

PRODUCTION WORKHOLDING









ELIMINATE COSTLY HAND TIGHTENING for more production and profit. This illustration shows the time difference between hand clamping and hydraulic clamping. Also, Wilton hydraulic clamping eliminates worker error and fatigue losses — hydraulic clamping is fast, accurate, and uniform, keeping production and quality levels high every man hour.

REDUCE DOWNTIME with interchangeable components, and a versatile variety of holders and attachments that often permit simplification of jig and fixture design. Tooling changes are quickly made.

LOW INITIAL COST plus interchangeability lets you assemble precisely the system you require. No need to invest in single purpose clamps—simple modifications can change your setup as tooling requirements change. Wilton hydraulic clamping components never become obsolete.

IMPROVE PRODUCT QUALITY with the clamping method that never varies, never is subject to human error or fatigue. You can minimize the "banking" of parts. Maximum clamping pressures can be established for fragile products.

ALL SHOPS CAN USE Wilton Hydraulic Clamping Systems to advantage. Wilton Systems are practical for the smallest semi-automated production line, the largest fully automated production equipment, or in testing, experimental, and tool and die work. Wilton Clamping Systems are adaptable to any size shop — any size job — any size machine.

POWRJAW HYDRAULIC

Converts any machine table into an integral hydraulic powered vise with table-long capacity.

A PowRjaw system is more than a machine tool accessory. It is an innovation in automated machine tool clamping that provides new important cost and labor-saving advantages, whether speed or high precision is most important—or both.

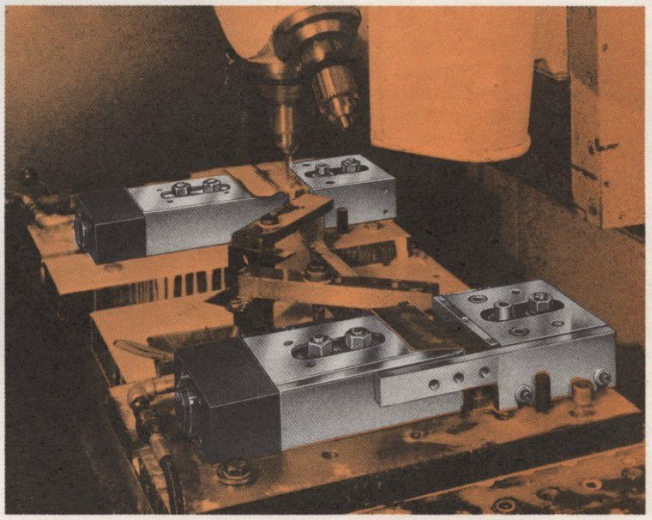
Unlimited Jaw Opening: PowRjaw converts the table of your machine into an integral vise or fixture with unlimited opening capacity. The movable jaw and opposing stationary jaw are anchored to the table by three 5/8″ cad bolts—actually become part of the table. Loosen the cad bolts and set PowRjaw for any workpiece; capacity is limited only by table length.

Extreme Precision: PowRjaw's patented construction guarantees machine tool accuracy. Stationary jaw is solid steel, has no moving parts, and is bolted to the machine table. The movable jaw is machined from a single block of steel. The mortised center anchor block is triple bolted to the machine table. The sliding outer section travels on precision guides fitted into internally bored guideways along the entire length of the body. Both parts are precision mated; there can be no jaw rise.

Since there is no bed, PowRjaw eliminates bed deflection common to conventional machine vises. PowRjaw is an integral part of the machine table and delivers all the precision of your machine tool's design.

Full Usuable Jaw Depth: PowRjaw's low silhouette assures 100% usable working depth with minimum height. Jaw faces are the same height as the PowRjaw body, bolts recessed. The stationary jaw has a work surface on either end; one is hardened serrated steel, the other hardened steel.

4 Tons of Hydraulic Power: Two-stage clamping action provides up to 8000 lbs. of positive hydraulic clamping force to hold workpieces rock-solidly. No chatter, even under the heaviest metal removing operations. Eliminates rework and scrap caused by work slippage!

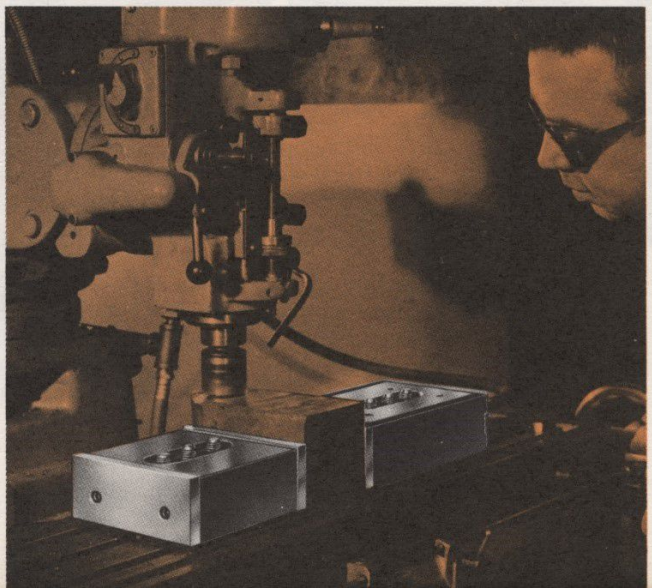


Milling, drilling and tapping operation outputs were increased from 20 pieces per hour to 180 per hour by the twin PowRjaw units on this Cintimatic tape controlled milling machine.

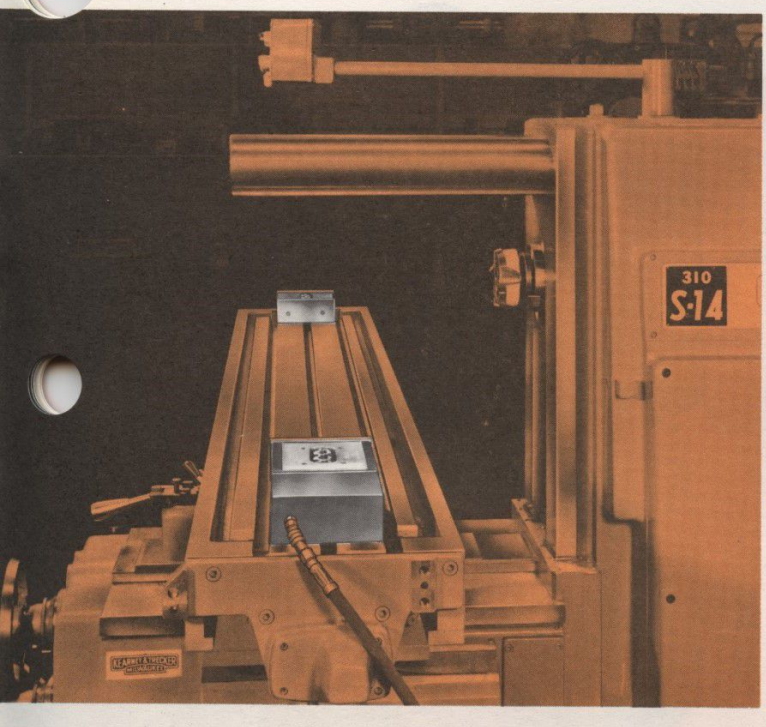
This machine performs various operations on several product components. PowRjaws, which hold multiple parts securely and accurately, have increased work flow and reduced the per piece cost through elimination of slow hand tightening.

Irregular stock for large, heavy drop forge dies is milled smooth quickly, thanks to PowRjaw. The operation was previously done on a shaper—a much slower operation.

PowRjaw offers a real advantage in work-holding because it is bolted directly to the T-slots on the table. This allows the piece part to rest on the table, giving greater stability, an absolutely square cut, and more certain accuracy. PowRjaw's high holding force minimizes chatter and, as a result, saves machine drive wear.

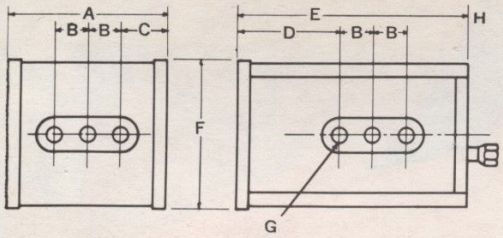


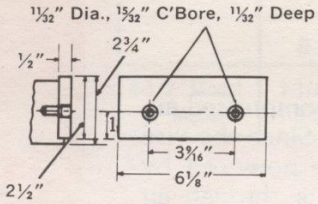
MACHINE VISE



Reduces Tooling Investment: PowRjaw becomes a versatile and completely automatic production fixture when fitted with jaw adaptors designed for specific workpieces. Compact and completely portable, PowRjaw can be shifted from operation to operation. PowRjaw eliminates hand-tightening, provides rapid reloading and clamping, sharply reduces tooling investment.

Air/Hydraulic System: Provides up to 8000 lbs. of locking force at the touch of an air control valve lever. The integral PowRjaw power unit is a totally enclosed steel hydraulic cylinder. It may be powered by a Wilton air/hydraulic booster, by a hydraulic pump, or by an existing oil pressure system.





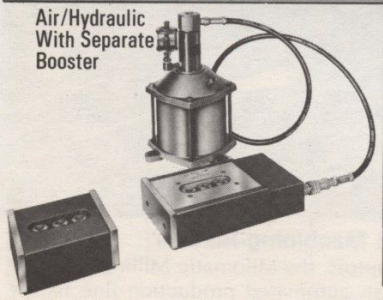
Operation: A center anchor block and a movable outer section that travels on two internally-hardened guides form the main jaw. Hydraulic piston engages the movable outer section, transferring 1/2" stroke from the rear of the anchor block to the front. Return springs complete the cycle.

Stationary and movable jaw dimensions

Model	A	B	C	D	E	F	G	H
Air/Hydraulic	6-1/2"	1-3/8"	1-7/8"	4-3/16"	9-1/2"	6-1/8"	21/32" Dia.	1-1/4"

Specifications:

System	Catalog No.	Description	Power stroke	Hydraulic locking force	Shipping wt., lbs.
Air/Hydraulic With Separate Booster	780	Complete with hydraulic hose, power unit, air/hydraulic booster, movable and stationary jaws with keys.	1/2"	8000 lbs. at 100 psi air	130
	781	Movable jaw only complete with power unit and air/hydraulic booster.	1/2"	8000 lbs. at 100 psi air	100
	782	Movable jaw only with hydraulic power unit, but without air/hydraulic booster (for use with alternate oil pressure source).	1/2"	8000 lbs. at 2900 psi oil	50
	702	Stationary Jaw Only (for all models)			30



Price of the system includes vise, air/hydraulic booster with 5-foot connecting reinforced hydraulic hose and the following required accessories: No. 23-1010 rapid return valve; No. 23-1006 air control; safety check valve No. 23-1011; 2 sections No. 90-3906 air hose (each 5' long); air filter lubricator Regulator No. 23-1054.

MILOMATIC AIR/HYDRAULIC

Fully automatic for faster operation.

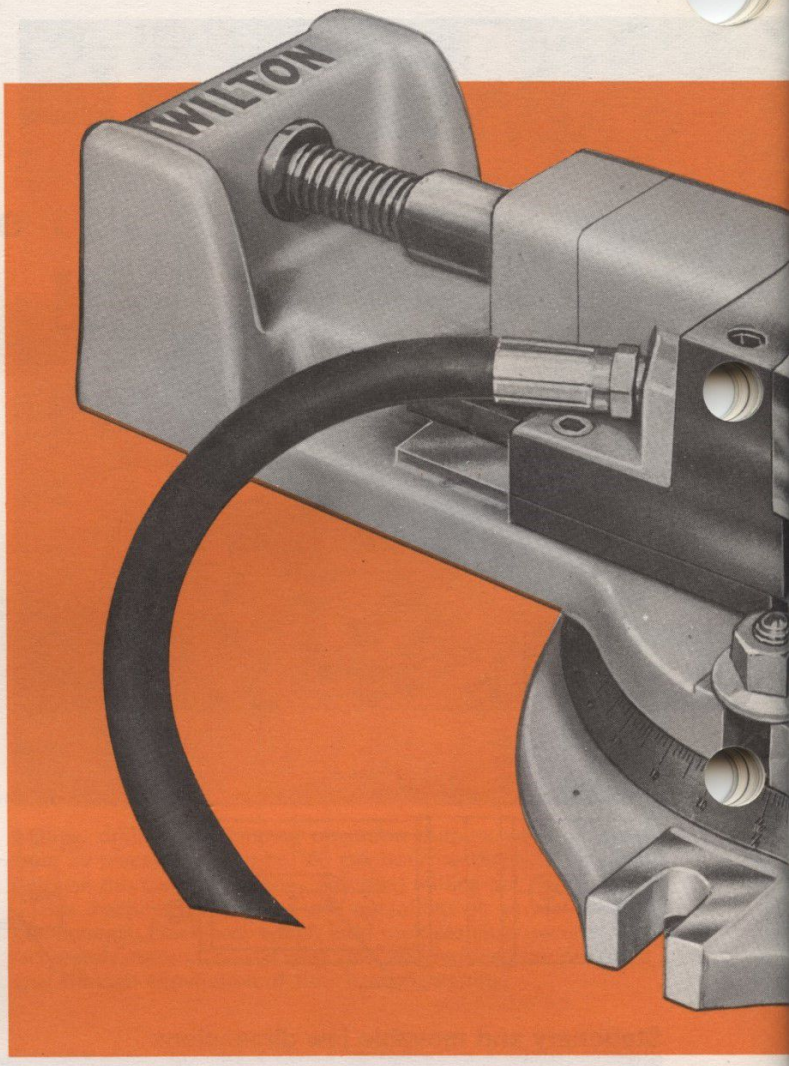
Your machines produce more per hour if they're equipped with Wilton Milomatic milling machine vises. These vises provide pushbutton-fast loading and reloading, reduce time lost in hand tightening. And with your own custom-made jaw adaptors, these vises become automated production fixtures convertible in minutes from setup to setup with a hand tool!

The 4-1/2" Milomatic has low profile, small base area, graduated swivel or stationary mount—small enough for tight quarters. On the other hand, its big 4-1/2" jaws, deep throat, and rugged construction give it the capacity for larger workpieces. And this model provides up to 4000 lbs. of holding force. The 6" Milomatic offers more capacity in jaw width, depth, and opening, plus nearly twice as much clamping force.

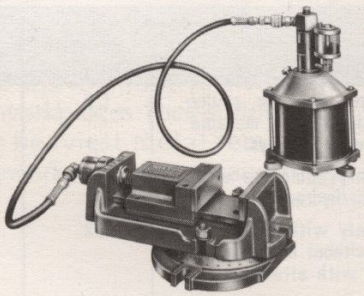
Compact and powerful, Milomatic models are adaptable to a wide range of work and machines—make high-production, automated clamping truly practical and profitable.

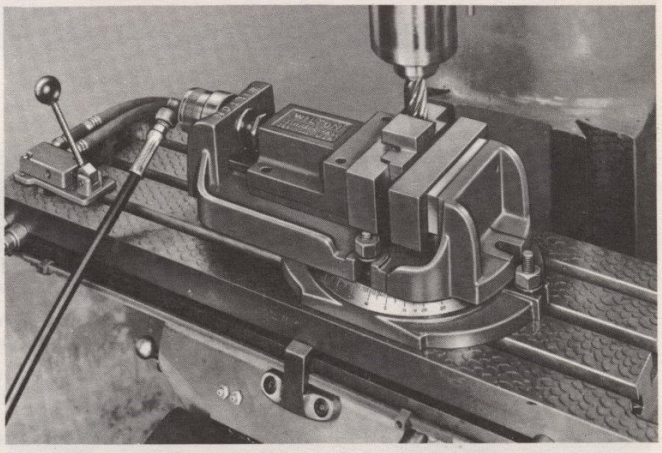
Selection of Power Sources

Procom vises are usually powered by compressed air, using a Wilton air/hydraulic booster. Since the vise is purely hydraulic, it may also be powered by a Wilton or other hydraulic pump, or through an existing oil pressure system. For pump operation, order your Milomatics without the booster.



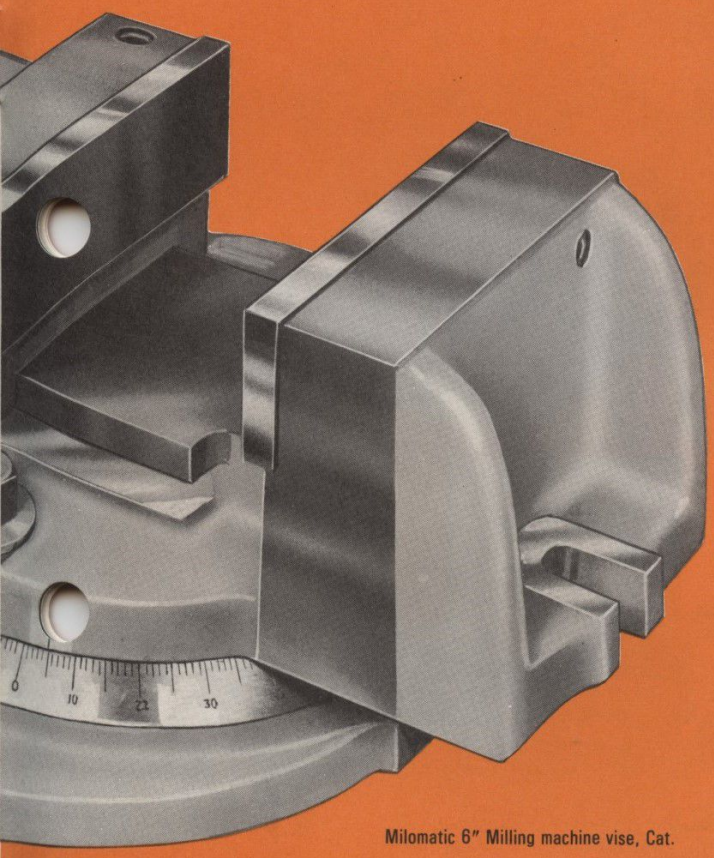
Price of the system includes vise, air/hydraulic booster with 5-foot connecting reinforced hydraulic hose and the following required accessories: No. 23-1010 rapid return valve; No. 23-1006 air control; safety check valve No. 23-1011; 2 sections No. 90-3906 air hose (each 5' long); air filter lubricator Regulator No. 23-1054.



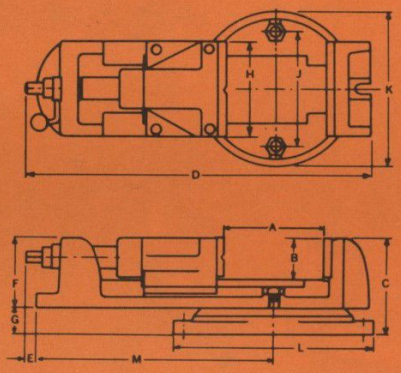


Milomatic as Automatic Machining Fixture
Rigged with special jaw adaptors, the Milomatic Milling Machine Vise does double duty as an automated production line fixture and as an automated machine vise. A touch on the air control valve instantly locks the workpiece in this drilling and routing operation. 4-1/2" model is shown. Its low profile, small base area and graduated swivel aid in positioning the workpiece on this small machine table.

MILLING MACHINE VISE



Milomatic 6" Milling machine vise, Cat.

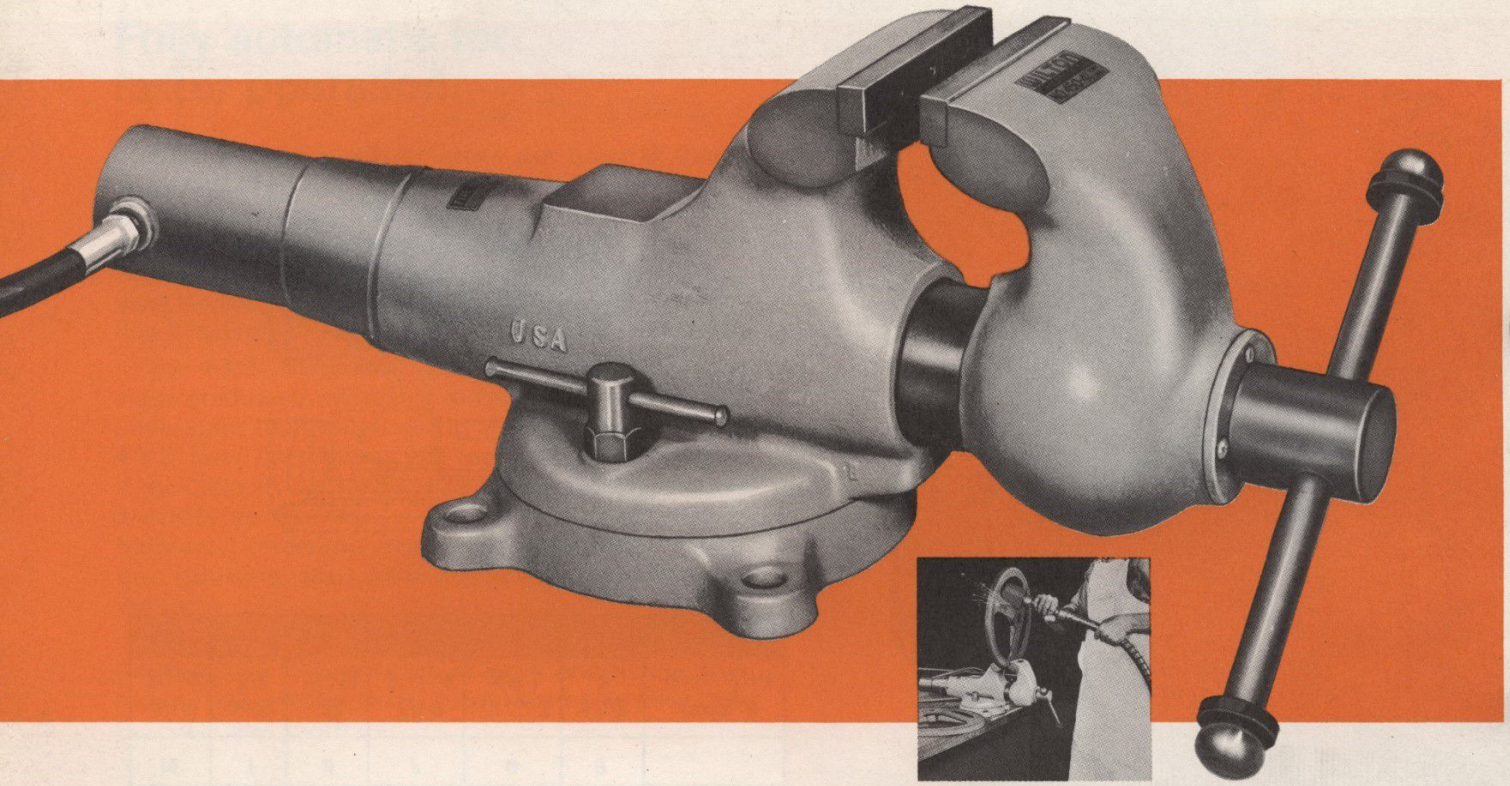


	A	B	C	D	E	F
4-1/2" Model 6" Model	4" 5-1/4"	1-3/4" 2-15/16"	4-11/16" 6-1/2"	15-3/8" 23"	3/4" 13/16"	3-7/16" 4-7/8"
	G	**H**	**J**	**K**	**L**	**M**
4-1/2" Model 6" Model	1-1/4" 1-5/8"	4-1/2" 6"	6" 7-3/4"	8-1/4" 10-3/8"	11" 13-1/8"	9-3/8" 13"

Specifications

Catalog number, complete system	Type of base	Width of jaws	Maximum jaw opening	Depth of jaws	Standard power stroke	Rated locking force at 100 psi air	Shipping weight complete	Catalog number vise only
MN-450	Stationary	4-1/2"	4"	1-3/4"	5/8"	4,000 lbs.	84 lbs.	2N-450
MS-450	Graduated Swivel	4-1/2"	4"	1-3/4"	5/8"	4,000 lbs.	102 lbs.	2S-450
MN-600	Stationary	6"	5"	2-15/16"	5/8"	7,300 lbs.	152 lbs.	2N-600
MS-600	Graduated Swivel	6"	5"	2-15/16"	5/8"	7,300 lbs.	186 lbs.	2S-600

WILTOMATIC AIR/HYDRAULIC BENCH VISE



Powerful hydraulic muscle frees manpower

Wiltomatic vises are fully automatic—opening and closing strokes obey the touch of a pedal. This saves time, increases production.

The maximum closing force between the jaws varies from 2513 lbs. to 6891 lbs., depending on the particular vise size used. Locking forces can be reduced by reducing input air pressure.

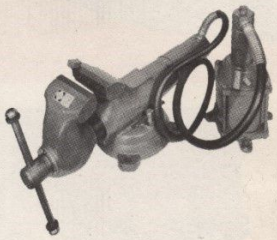
The main screw and nut of the vise is engaged at all times; this virtually eliminates change-over time between jobs, since the static jaw opening is set by rotating the handle, as in a conventional vise.

And these vises are safe, even foolproof. Power stroke is limited to 1/2", even with the vise empty. Recommended operating procedure is to preset the jaws for the smallest possible travel that will allow workpieces to be loaded without interference.

Wiltomatic air/hydraulic bench vises operate on air line pressures from 30 to 120 psi. Locking force varies directly to the input pressure. For best results, input air pressure from 65 to 100 psi is recommended.

This air/hydraulic bench vise applies more than two tons of locking force in this foundry grinding operation. Equipped with a foot control, the vise frees both hands for other work.

Price of the system includes vise, air/hydraulic booster with 5-foot connecting reinforced hydraulic hose, including the following required accessories: Cat. No. 23-1010 rapid return valve for air control; safety check valve Cat. No. 23-1011; 2 sections Cat. No. 90-3906 air hose (each 5' long); Air/filter-lubricator-regulator No. 23-1054.

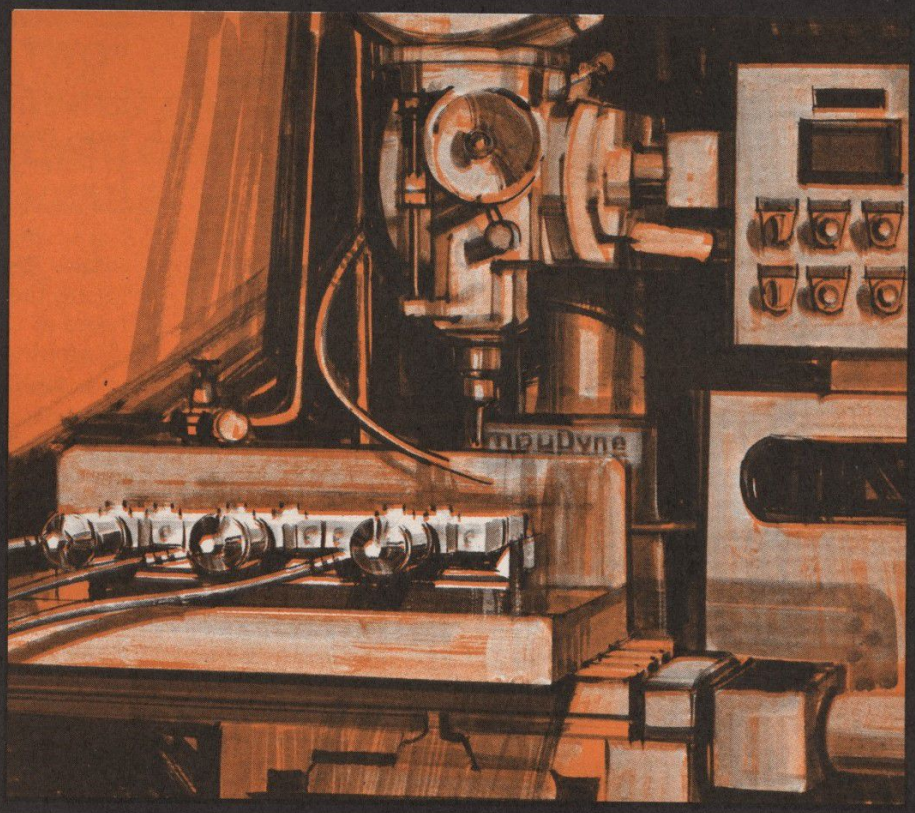


Specifications

Catalog number, complete system	Jaw width	Usable jaw opening	Maximum power stroke	Depth of throat	Rated locking force at 100 PSI air	Catalog number, vise only
		swivel base type				
WS-400	4"	6"	1/2"	3-1/2"	4712 lbs.	5S-400
WS-600	6"	6"	1/2"	4-3/8"	6891 lbs.	5S-600
		stationary base type				
WN-400	4"	6"	1/2"	3-1/2"	4712 lbs.	5N-400
WN-600	6"	6"	1/2"	4-3/8"	6891 lbs.	5N-600

WILTON®

Hydraulic Tooling Systems



POWRLOCK ENGINEERED

Four ways a PowRlock System pays for itself—and more!

PowRlock clamping systems replace manual clamping with a flick of a switch. The heart of a PowRlock system is Wilton's unique PowRlock hydraulic head, which surrounds a stud or bolt with powerful hydraulic thrust in any direction.

A PowRlock head is small enough to hold in your hand, yet powerful enough to lift four automobiles. Its modular aspects permit you to build a specialized clamping system on your machine—any machine. PowRlock is much more than a simple single-acting hydraulic cylinder. **It's an entirely new concept of high holding forces engineered to be applied easily to all kinds of manufacturing processes** and to give high performance and dependability. Here's how a PowRlock system saves you money.

1. Speeds production. PowRlock heads replace obsolete manual clamping procedures with high speed hydraulic clamping. This is especially important in operations using sophisticated, special, or NC equipment. PowRlock cuts clamping time required for each workpiece and speeds production accordingly. PowRlock systems are especially profitable in operations requiring little actual machining time, where workpieces are loaded and unloaded many times per hour.

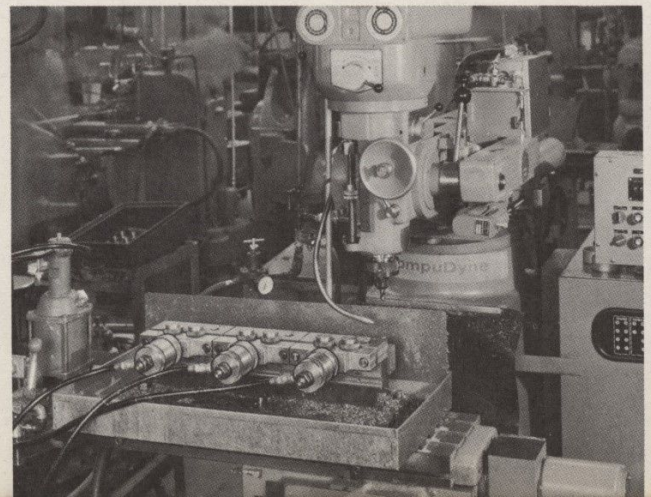
2. Better quality and quality control. PowRlock's hydraulic clamping is constant and uniform in pressure from one time to the next. This holds workpieces in exactly the same position each time. Which, of course, means better quality, since the entire positioning and clamping operation is not subject to human error and fatigue. Pressure can be infinitely controlled—automatically.

3. Simplified tooling. If a machine is used to produce workpieces of more than one size or configuration, the mounting of alternate PowRlock heads in position for all pieces saves tooling costs. Set-up and tooling change is speeded up, saving money by saving time. Present tooling can be converted to PowRlock in little time at little cost.

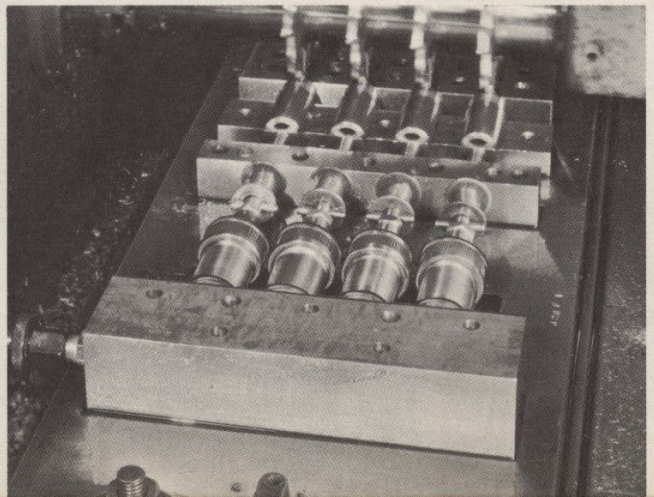
The use of PowRlock heads also produces substantial savings through simplified fixture design. All the fixture designer has to do to provide clamping is to locate the PowRlock heads, on either old or new fixtures. A Designer's Guide with full-scale template is available from Procom on request.

4. Reduced Indirect Labor and Rework. Setup time is greatly reduced through simplified tooling. Smaller and simpler fixtures are made possible by the compactness of PowRlock heads, which were designed expressly for fixture building. PowRlock heads are smaller than all other devices for creating high linear force. They replace "homemade" wedges and cams that take up space, are difficult and expensive to manufacture and slow to actuate. Moreover, since PowRlock clamping force is consistently even and accurate, there will be fewer errors, fewer pieces to rework.

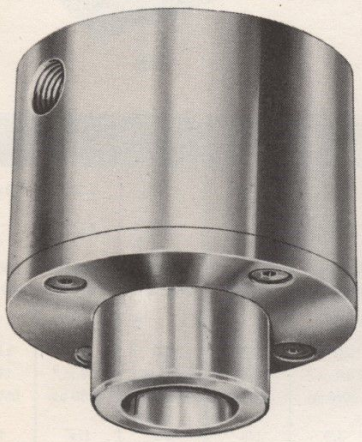
A tape-controlled Excello milling machine machines six heads for impact wrenches. The impact wrench heads are held in place by three high-pressure PowRlocks, each having a holding force of 6000 lbs. Manual clamping methods were not considered for use with this numerical-controlled machine.



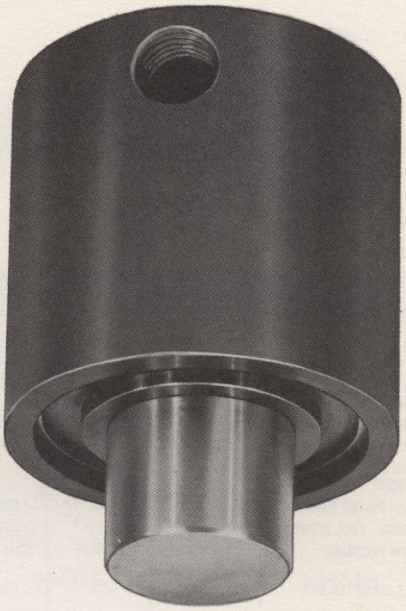
High-alloy steel valve components are slotted by climb milling on a Cincinnati No. 2 plane milling machine. Four valve components at a time are held by 4 PowRlocks, each providing 2000 lbs. of holding force, for a total of 8000 lbs. Production increase over conventional work-holding methods is better than 200%.



HYDRAULIC SYSTEMS



TWO TYPES OF POWRLOCK HEADS



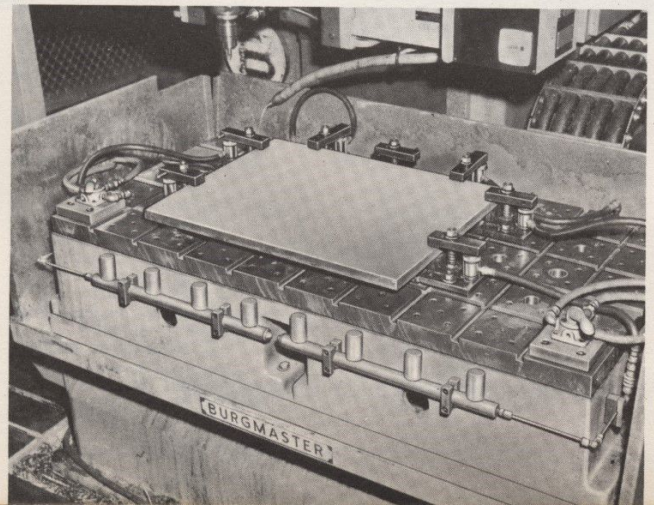
Hollow Piston

PowRlock hollow piston heads apply force in either a "push" or a "pull" motion. They accommodate any length bolt, stud, or rod, which passes through the head for anchoring. This means that the motion and power of the piston may be transmitted through any size jig or fixture in any direction, at any angle. The exclusive Procom patented hollow piston heads exert a greater locking force—up to 20,000 lbs.—since they have a greater effective piston area. Four models of hollow piston PowRlock heads are available.

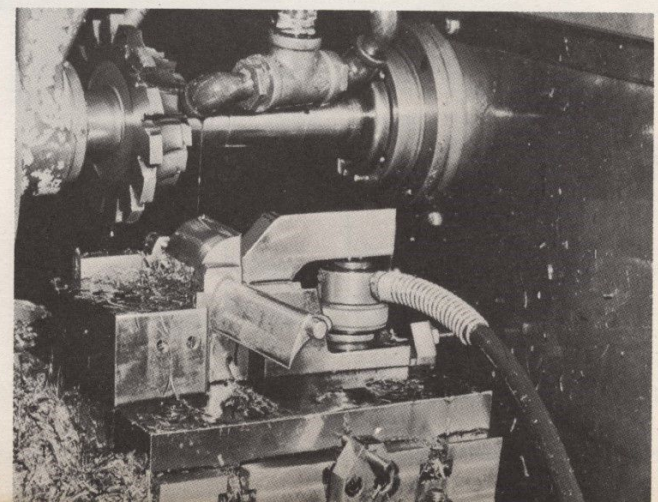
Solid Piston

Solid piston PowRlock heads are compact and have high locking force capabilities. Drilled and tapped holes and threaded OD's accommodate a wide variety of mountings. Available in six different models, solid piston PowRlock heads apply up to 17,500 lbs. of hydraulic force. Their longer strokes make them ideal for many operations requiring lateral motion as well as clamping.

Fastest clamping possible is needed for this tape controlled turret drill and PowRlock provides it! Eight compact PowRlock heads are used with rocker arms, clamp instantly on signal. Hydraulic power is supplied by one Procom double-acting air/hydraulic booster. Hydraulic manifold and eight quick-disconnect couplers along each side of the table are for attaching 16 additional PowRlock heads for an alternate workpiece.

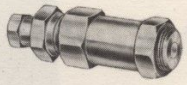


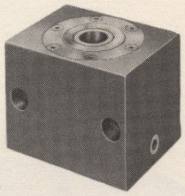
Early milling operation of an aircraft turbine blade. The force of the PowRlock piston is delivered to the workpiece through a heavy steel rocker arm. Note that by using PowRlock, fixture reloading is possible as soon as the work clears the cutter; conventional locking of this fixture would require the table to be traversed at least 10" beyond the arbor for reloading.



PowRlock Heads

PowRlock heads are made of highest quality alloy steels, heat-treated to high Rockwell C hardness. Concentricity and internal finish is held to the most critical tolerances to assure optimum service, minimum maintenance. Available G. T. seals add to long life.





Specifications

POWRLOCK HEAD	STANDARD 170	COMPACT 180	MIDGET II 190	MINI 200	MAJOR 210	JUNIOR II 230	SUPER 250	SENIOR 260	JUMBO 270	MICRO 280	GENERAL 300	JUNIOR I 2600	MIDGET I 2800
OVERALL LENGTH	2.343"	2.079"	3.000"	2.437"	2.968"	2.250"	9.750"	10.437"	3.500"	1.781"	3.375"	2.375"	3.469"
OUTSIDE CYLINDER DIAMETER	2.375"	1.625"	1.500"	1.000"	2.937" x 3.937" *	3.000"	1.500"	2.375"	4.000"	1.000"	2.937"	2.500"	1.125"
EFFECTIVE PISTON AREA	1.767 in.^{2}	.79 in.^{2}	.785 in.^{2}	.307 in.^{2}	2.552 in.^{2}	1.976 in.^{2}	.994 in.^{2}	1.767 in.^{2}	4.790 in.^{2}	.307 in.^{2}	2.252 in.^{2}	1.99 in.^{2}	0.690 in.^{2}
FORCE PER 1000 PSI	1767 lbs.	798 lbs.	785 lbs.	307 lbs.	2552 lbs.	1976 lbs.	994 lbs.	1767 lbs.	4790 lbs.	307 lbs.	2552 lbs.	1990 lbs.	690 lbs.
DIAMETER OF HOLLOW PISTON BORE		.312"			.750"	.625"			1.010"			.651"	
MAXIMUM PISTON STROKE	1.000"	.406"**	1.500"	.500"	.750"	.437"**	5.000"	3.000"	.590"**	.281"	.750"	.281"	1.000"
OIL VOLUME—FULL STROKE	1.767 in.^{3}	.324 in.^{3}	1.178 in.^{3}	.154 in.^{3}	1.914 in.^{3}	.864 in.^{3}	4.97 in.^{3}	5.301 in.^{3}	2.826 in.^{3}	.090 in.^{3}	1.914 in.^{3}	.63 in.^{3}	.69 in.^{3}
MAXIMUM PRESSURE RATING	5000 psi	5000 psi	5000 psi	5000 psi	5000 psi	5000 psi	5000 psi	5000 psi	5000 psi	5000 psi	5000 psi	5000 psi	5000 psi
OIL PORT DIAMETER NPT.	1/4"	1/8"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	3/8"	1/4"	1/4"	1/4"	1/4"

* Cylinder width x height.

** By removing the internal spring, stroke is approximately doubled; oil volume required also approximately doubles.

Air/ Hydraulic boosters handle jobs with Power, Speed, Dependability

Use boosters wherever the working tool is powered by a hydraulic cylinder. Mount anywhere on machine or in a remote location. Simple to connect and disconnect; let you tailor a booster system to your setup as it grows or changes. Available in single-acting or double-acting models.

Double-Acting Boosters

Replaceable Seal-Pak Cartridge Eliminates Piston and Cylinder Wall Wear

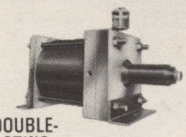
Patented Seal-Pak Cartridge serves as a bearing for booster's hydraulic piston; absorbs all wear and friction. Booster cycles over 500,000 times before Seal-Pak needs replacement.

Single-Acting Boosters

Poly-Pak Seal Increases Piston and Wall Life

Piston rides in a special Poly-Pak seal retained in a short bearing area. Bearing absorbs entire friction load; cylinder wall is untouched by hydraulic ram.

Specifications

Booster	Catalog Number	Air Piston Diameter	Hydraulic Piston Diameter	Length, Overall	Height, Overall	Air Displacement Per Cycle	Oil Displacement	Pressure Ratio	Stroke	Approx. Shipping Weight
 DOUBLE-ACTING	0090	8.000"	1.750"	19"	9"	2.1 cu. ft.	14.4 cu. in.	20 to 1	6"	140 lbs.
	0100	8.000"	1.750"	32"	9"	4.2 cu. ft.	29.0 cu. in.	20 to 1	12"	150 lbs.
	0080	8.000"	1.375"	32"	9"	4.2 cu. ft.	17.8 cu. in.	33 to 1	12"	150 lbs.
	0070	8.000"	1.375"	19"	9"	2.1 cu. ft.	8.9 cu. in.	33 to 1	6"	140 lbs.
SINGLE-ACTING	0110	6.000"	1.125"	7"	17"	.054 cu. ft.	3.23 cu. in.	29.1 to 1		26 lbs.
	0040	4.500"	1.125"	6-1/2"	13"	.031 cu. ft.	3.23 cu. in.	16 to 1		19 lbs.

FOR COMPLETE SPECIFICATIONS ON ALL ENGINEERED TOOLING SYSTEMS SEE TECHNICAL MANUAL 109

CORRESPONDING CATALOG NUMBERS

This comparative chart was compiled for the convenience of buyers without any intent to draw a comparison. Blank spaces indicate that to the best of our knowledge no competitive makes are available.

Jaw Width	WILTON	Athol	Columbian	Morgan	Parker	Reed	Ridge
MACHINIST VISES — SWIVEL BASE							
2"	20S	—	—	—	—	—	—
2½"	250S	—	—	—	—	—	—
3"	300S	623	603M2	130	973B	203R	31PN
3½"	350S	623½	603½M2	135	973½B	203½R	33PN
4"	400S	624	604M2	140	974B	204R	41PN
4½"	450S	624½	604½M2	145	974½B	204½R	43PN
5"	500S	625	605M2	150	975B	205R	51PN
6"	600S	626	606M2	160	976B	206R	61PN
8"	800S	—	608M2	180	978A	208R	81P
MACHINIST VISES — STATIONARY BASE							
2"	20N	—	—	—	—	—	—
2½"	250N	—		—	—	—	—
3"	300N	613	503M2	30	953B	103R	31SN
3½"	350N	613½	503½M2	35	953½B	103½R	33SN
4"	400N	614	504M2	40	954B	104R	41SN
4½"	450N	614½	504½M2	45	954½B	104½R	43SN
5"	500N	615	505M2	50	955B	105R	51SN
6"	600N	616	506M2	60	956B	106R	61SN
8"	800N	—	508M2	80	958A	108R	81S
MACHINIST VISES — SWIVEL BASE AND SWIVEL JAW							
4½"	450SJ	644½	404½	345	384½A	404½R	41SJN
COMBINATION PIPE AND BENCH VISES							
3½"	C-0	323½	203½	87	433½A	1C	33CPN
4½"	C-1	324½	204½	88	434½A	2C	43CPN
5"	C-2	325	205	288½	435	3C	—
6"	C-3	326	206	289½	436	4C	61CPN
POWRSCREW AND MANUAL MACHINIST VISES — SWIVEL BASE							
4½"—Manual	4500S	—	—	—	—	—	—
4½"—Powrscrew	4510S	—	—	—	—	—	—
POWRSCREW AND MANUAL MACHINIST VISES — STATIONARY BASE							
4½"—Manual	4500N	—	—	—	—	—	—
4½"—Powrscrew	4510N	—	—	—	—	—	—
WOODWORKERS' VISES							
4"x7"	51W/61W	—	7CDW	10A	25W	7D	W7CD
4"x7"	51A/61A	—	7CDT	10A	—	—	W7CDT
4"x10"	62W	—	10CDW	20A	26W	10D	W10CD
4"x10"	62A	—	10CDT	20A	—	—	W10CDT
4"x7"	53W/63W	—	7RDW	100A	445W	7QD	W7
4"x7"	53A/63A	—	7RDT	100A	—	—	W7T
4"x10"	64W	—	10RDW	200A	446W	10QD	W10
4"x10"	64A	—	10RDT	200A	—	—	W10T
4"x7"	66A	—	V7CDT	315A	—	—	VL7RT
4"x7"	67A	—	V7RDT	318A	—	—	VL7CT
7"x7"	76A	—	—	—	—	—	—
7"x7"	77A	—	—	—	—	—	—

WILTON PRODUCTS ARE COVERED BY THESE PATENTS:

WILTON Vises
Machinists' Vises
Combination Pipe & Bench Vises
Precision Jewelers' Vises
U.S. Design Pat. No. 131498
Trade Mark Registered

WILTON Milling Machine Vises
U.S. Patent Pending

WILTOMATIC Power Bench Vises
U.S. Patent No. 2693727
Trade Mark Registered

MILOMATIC Power Machine Vises
U.S. Patent No. 2708381
U.S. Patent No. 2708382

POWRLOCK Setup Clamps
U.S. Patent No. 2752801
Trade Mark Registered

Wilton Woodworkers' Vises
U.S. Patent No. 2430458
U.S. Design Pat. No. D181115

Wilton OFFSET Woodworkers' Vises
U.S. Patent Pending

Wilton RAPID TITAN C-clamps
U.S. Patent No. 2430458
U.S. Design Pat. No. 184268
Trade Mark Registered

PERMA-PAD (for C-clamps)
U.S. Patent Pending
Trade Mark Registered

POWRARM Work Positioners
U.S. Patent No. 2559925
Trade Mark Registered

Wilton UNIVERSAL TURRET Vise
U.S. Patent No. 3007358

Wilton CADET Mechanics' Vises
U.S. Design Pat. No. D-29738
U.S. Design Pat. No. D-46926
Trade Mark Registered

Wilton SHOP KING Vises
U.S. Design Pat. No. 164143
Trade Mark Registered

Wilton SCOUT Vises
Trade Mark Registered

Wilton TORCO Vises
U.S. Design Pat. No. 154001
Trade Mark Registered

POWRSLIDE Bridge Clamp
U.S. Patent Pending
Trade Mark Registered

POWRJAW Machine Vise
U.S. Design Pat. No. 3,307,843
Trade Mark Registered

POWRSCREW Hydraulic Tightening
U.S. Patent No. 3,348,836
Trade Mark

Wilton 7" x 7" Woodworkers' Vise
U.S. Patent No. 3,377,061
Trade Mark

Wilton FLIP-GRIP Vise
U.S. Patent Pending

CANADA — 542038 — PowRlock
532950 — WiltOmatic
596470 — MilOmatic
596471 — MilOmatic
472713 — PowRarm
D134-19815 — Cadet
D145-20901 — Rapid Titan Clamp
N. S. 21302 — Trade Mark Wilton
D19577 — Shop King

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